



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

400 Seventh Street, S.W.  
Washington, D.C. 20590

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TRANSPORTATION RESEARCH CENTER

Indiana University  
[REDACTED]

ON-SITE AIR BAG INVESTIGATION

CASE NO. - 90-03  
FLEET - CORPORATE VEHICLE  
LOCATION - [REDACTED], INDIANA  
ACCIDENT DATE - [REDACTED], 1990

Submitted By:

[REDACTED]  
Senior Staff Associate

[REDACTED] 1990

Contract Number: DTNH22-87-C-07169

Prepared for:

U.S. Department of Transportation  
National Highway Traffic Safety Administration  
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16. Abstract <p>This report covers an on-site investigation of an air bag deployment collision that involved a 1990 Ford Taurus GL station wagon. The Taurus was traveling west in the westbound lane of a two-lane, undivided county roadway. The Taurus went onto the north shoulder to avoid a noncontact vehicle. It reentered, crossed, and exited the roadway onto and through the south shoulder. The right side of the case vehicle impacted a medium-sized tree located on the south roadside causing the driver side supplemental restraint system (air bag) to deploy. Subsequently, the case vehicle contacted several small trees with its front bumper and rolled over onto its top coming to rest facing south-southeast. In addition to the air bag, the driver was also wearing the available 3-point lap and shoulder belt; he sustained a sprained right knee. The right front passenger was not wearing her available 3-point lap and shoulder belt and sustained fatal injuries which included: fracture/dislocation of the atlanto-occipital joint, five fractured right side ribs, and lacerations to her right lung, liver, spleen, and abdominal aorta.</p>					
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19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified		21. No. of Pages 91	22. Price	



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# TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 90-03

FLEET - CORPORATE VEHICLE  
LOCATION ██████████, INDIANA

## Summary

This report concerns a single motor vehicle off-road accident involving an air bag equipped 1990 Ford Taurus station wagon occurring on ██████████, 1990 at ██████████ on a ██████████ near ██████████, Indiana.

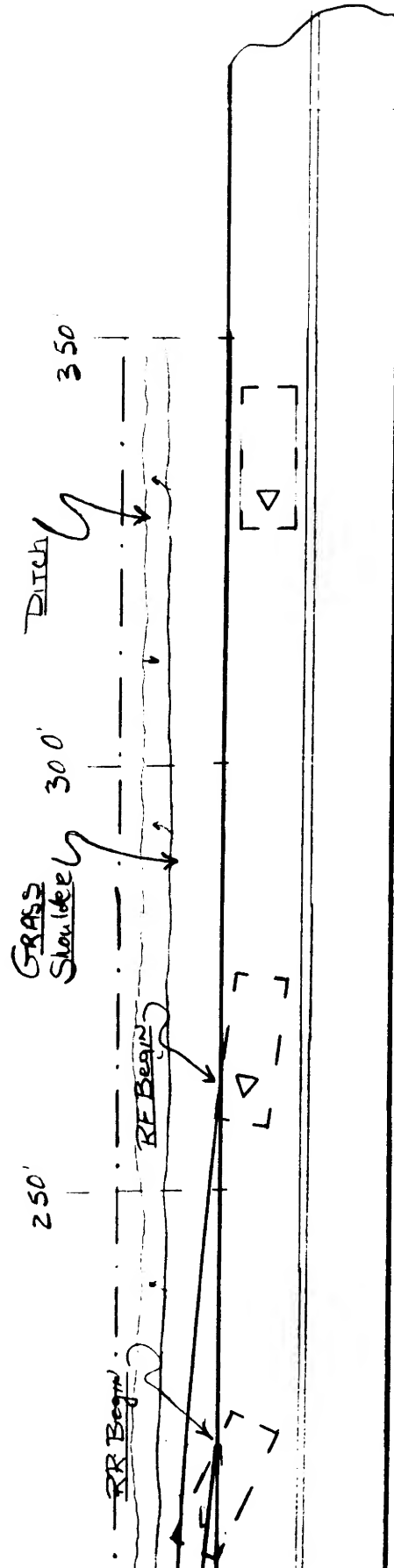
The Taurus was traveling west in the westbound lane of a two-lane undivided roadway when it swerved right to avoid a head-on collision with a non-contact vehicle which was traveling east on the same roadway. The Taurus entered the grassy shoulder on the north side of the road in order to avoid striking the on-coming vehicle. The Taurus reentered the roadway in a counterclockwise rotation. It crossed the roadway and the grassy shoulder on the south side of the roadway while continuing to rotate counterclockwise; it impacted and uprooted a medium-sized tree. The Taurus subsequently hit several small trees and rolled over coming to rest on its top facing south-southeast.

The right front door of the Taurus impacted the medium-sized tree. The front bumper impacted the small trees. CDCs were determined to be: 61-RPAW-5, 09-FDLS-1, and 00-TDDO-1'. The CRASHPC reconstruction program was not used on the Taurus's medium-sized tree impact because the tree was uprooted and therefore could not be treated like an immovable barrier.

The 1990 Ford Taurus was equipped with a driver supplemental restraint system (air bag) which deployed as a result of the right side impact. The driver of the vehicle (43 year-old male) was also restrained by the active three-point lap and shoulder belt. He sustained a sprained right knee. The driver of the Taurus was listed on the Police Accident Report as sustaining a "B" (nonincapacitating-evident) injury as a result of this accident. The passenger (33 year-old female) in the Taurus was not wearing the available active three-point lap and shoulder belt. She sustained a fracture/dislocation of the atlanto-occipital joint, five right side rib fractures, and lacerations of her abdominal aorta, spleen, liver, and right lung. She was listed on the Police Accident Report as sustaining a "K" (fatal) injury.

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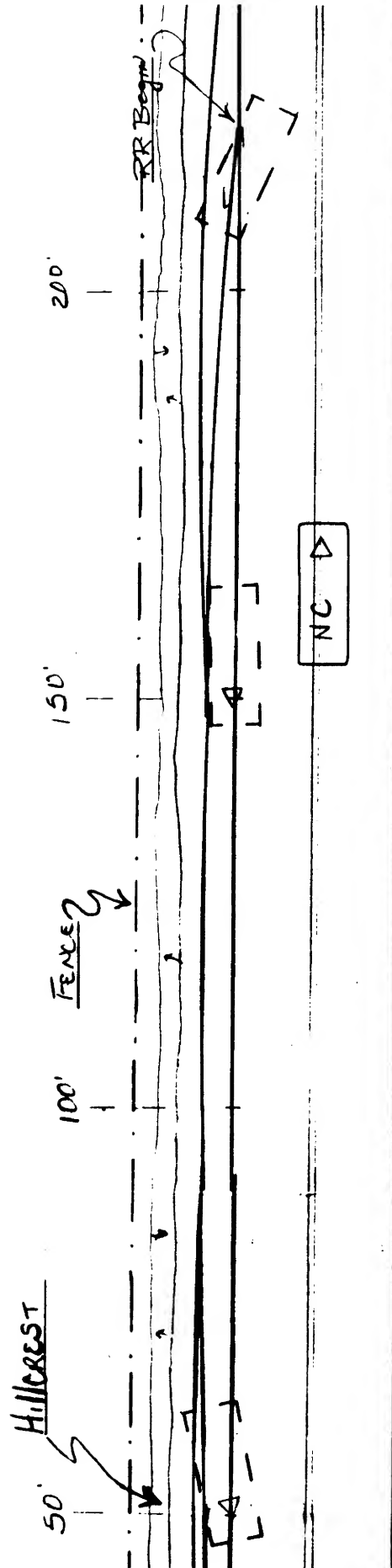
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TRC/IU CASE NO. 90-03

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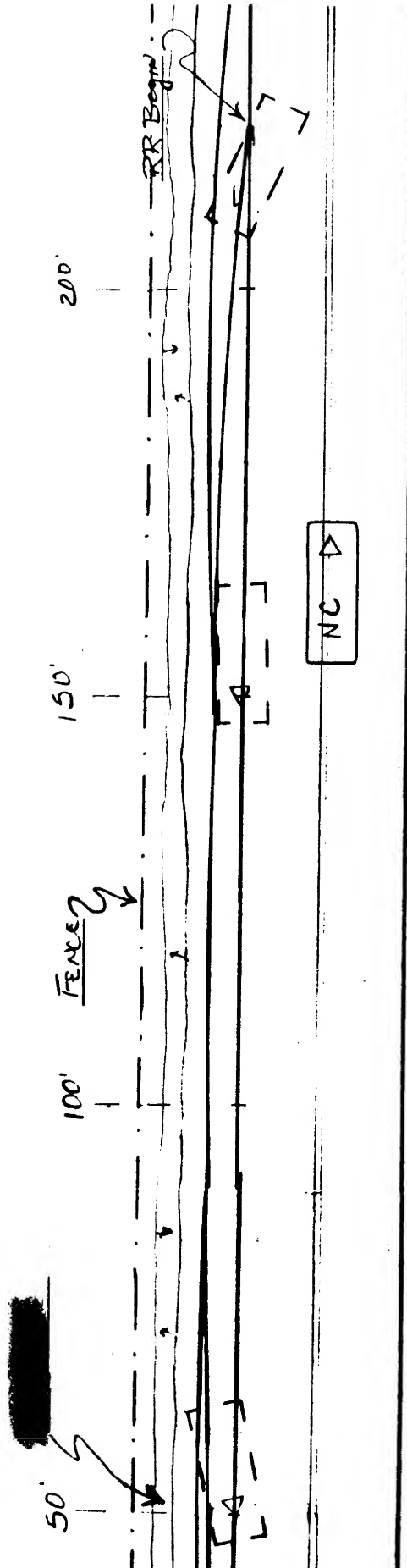
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TRC/IU CASE NO. 90-03

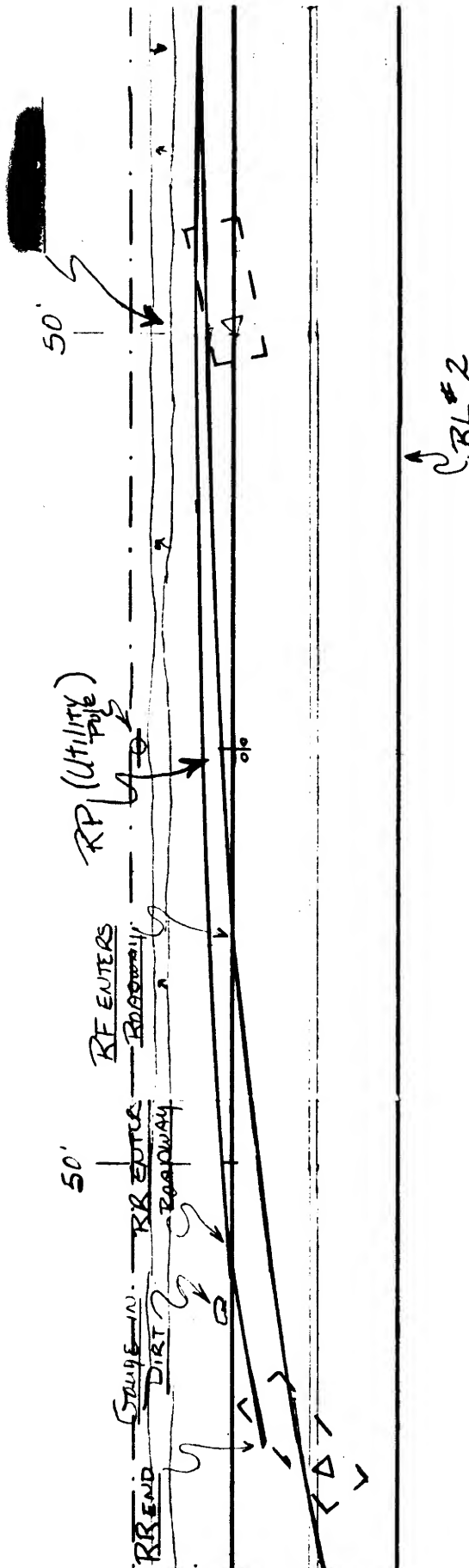
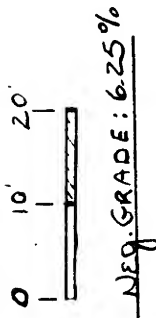
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1 inch = 20 feet



# TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 90-03

FLEET - CORPORATE VEHICLE  
LOCATION ██████████, INDIANA

## ACCIDENT DATA

Location/Street: County Road  
City/Township: ██████████ Township, Indiana  
Area/Type: Rural/Agricultural  
Accident Date/Time: ██████████, 1990 @ ██████████  
Investigating Police Agency: ██████████ Sheriff Department  
Accident Type: Car - ran-off-road fixed object  
Occupant Injury Severity (air bag vehicle): Laceration abdominal aorta (AIS-4) (Front-right passenger)

## AMBIENT CONDITIONS

Light conditions: Daylight  
Weather Condition: Overcast  
Precipitation: None (had rained earlier in morning)  
Road Surface: Dry

## ROADWAY

### Case Vehicle

Location: County road  
Number of Travel Lanes: 2-lanes, undivided  
Width: 20 feet  
Surface Type: Asphalt  
Median: None  
Shoulders: Grass  
Vertical alignment: Negative grade: 6.25 percent

**ROADWAY (CONT'D.)**

	<b><u>Case Vehicle</u></b>
Horizontal alignment:	Straight
Estimated Coefficient of Friction:	.71 asphalt .45 wet grass
Traffic Density:	Moderate

**TRAFFIC CONTROLS**

	<b><u>Case Vehicle</u></b>
Signals:	None
Signs:	None
Markings:	Double yellow center lines
Speed Limit:	55 m.p.h.

**VEHICLES**

	<b><u>Case Vehicle</u></b>
Year:	1990
Make:	Ford
Model:	Taurus GL
Body Type:	Station Wagon
V.I.N.:	1FACP5745LG-----
Color:	Gray
Mileage:	22,281
Engine:	V-6, 3.8 liter
Transmission:	Automatic
Steering:	Power-assisted, rack-and-pinion
Brakes:	Power-assisted front disc brakes, rear drum brakes
Padding:	Dash, steering wheel, doors



**VEHICLES (CONT'D.)**

	<u>Case Vehicle</u>
Active Restraints:	Front and rear, 3-point lap and shoulder
Passive Restraints:	Factory installed driver supplemental restraint system (air bag)
Defects:	None
Fleet:	Corporate vehicle
Tow status:	Towed due to damage

**VEHICLE DAMAGE****Exterior****Case Vehicle****Deployment Impact**

Event number:	1
Object Struck:	Medium-sized Tree
Damage location	
Damaged Plane:	Right
Vertical Location	
On Plane:	Mid-door
Direct Begins:	36.50 inches forward of right-rear axle
Length Direct:	14.00 inches
Field L:	42.00 inches
C <sub>1</sub> :	2.50 inches
C <sub>2</sub> :	16.00 inches
C <sub>3</sub> :	34.00 inches
C <sub>4</sub> :	28.50 inches
C <sub>5</sub> :	15.00 inches
C <sub>6</sub> :	7.25 inches
D:	+ 2.0 inches
Maximum Crush:	34.00 inches
Location:	C <sub>3</sub>
CDC:	61-RPAW-5
Damaged Components:	Right-front door, roof, windshield

**1st Nondeployment Impact**

Event number:	2
Object Struck:	Small trees

**VEHICLE DAMAGE (CONT'D.)****Exterior (Cont'd.)**                      **Case Vehicle****1st Nondeployment Impact (Cont'd.)**

Damage location	
Damaged Plane:	Front
Vertical Location	
On Plane:	Bumper level
Length Direct:	60.0 inches
Direct Begins:	Right-front bumper corner
Field L:	60.0 inches
C1:	2.0 inches
C2:	0.5 inch
C3:	0.0 inches
C4:	0.0 inches
C5:	0.0 inches
C6:	0.0 inches
D:	0.0 inches
Maximum Crush:	2.0 inches
Location:	C <sub>1</sub>
CDC:	09-FDLS-1
Damaged Components:	Front bumper

**2nd Nondeployment Impact**

Event number:	3
Object Struck:	Ground
Damage location	
Damaged Plane:	Top
Vertical Location	
On Plane:	Not applicable
Length Direct:	Not applicable
Direct Begins:	Not applicable
Field L:	Not applicable
C1:	Not applicable
C2:	Not applicable
C3:	Not applicable
C4:	Not applicable
C5:	Not applicable
C6:	Not applicable
D:	Not applicable
Maximum Crush:	Scratches
Location:	Roof
CDC:	00-TDD0-1
Damaged Components:	Left-rear side glass

**VEHICLE DAMAGE (CONT'D.)****Interior**

Damaged Components: Instrument panel and glove box, right-front passenger's seat, sunvisors, floor, right-front interior light, ashtray

Other Evidence of Occupant Contact: Blood/hair on interior rooflight; blood on roof; scuffs: right-front arm rest, upper A-pillar, B-pillar, right-front interior door surface, glovebox door, right-side roof rail

Manual Restraint System Failures: None

Seat Performance Failures: Driver's right side seatback anchor is pulled away from cushion; right-front seat back deformed rearward and seat cushion deformed laterally

**Repair**

Cost Estimate: Vehicle was a total loss

**VEHICLE VELOCITY ESTIMATES**

<b><u>Highest Delta "V"</u></b>	<b><u>Case Vehicle</u></b>
Reconstruction Program:	None
Program Algorithm:	Not applicable
Travel Speed:	45-50 (Driver estimate)
Total Delta "V":	Unknown
Longitudinal Delta "V":	Unknown
Lateral Delta "V":	Unknown

**COLLISION SEQUENCE**

Pre-Crash: The case vehicle (Taurus) was traveling west in the westbound lane of a two-lane undivided county roadway. A noncontact vehicle was traveling east on the same roadway. As the noncontact vehicle crested the hill the driver of the case vehicle perceived the noncontact vehicle to be traveling in the middle of the roadway and swerved right onto the grassy shoulder on the north side of the road in order to avoid striking the noncontact vehicle. While attempting to return to the roadway,

**COLLISION SEQUENCE (CONT'D.)**

the case vehicle began to rotate in a counterclockwise fashion. The rotation was accelerated as the grassy shoulder became level as the vehicle crested the hill. The case vehicle crossed the roadway and the grassy shoulder on the south side of the roadway while continuing to rotate counterclockwise. The accident occurred on the south roadside. The noncontact vehicle continued on and was not identified.

**Crash:** The right front door of the case vehicle impacted a medium-sized tree causing the driver side supplemental restraint system (air bag) to deploy. The case vehicle subsequently hit several small trees and rolled over coming to rest on its top facing south-southeast.

**Post-Crash:**

**Occupants:** The driver of the case vehicle remained inside the vehicle at final rest. He was conscious though somewhat disoriented as a result of the accident. The driver remained belted in an upside down position since the vehicle was on its top at final rest. He was able with the assistance of passersby who pried open the left-rear door to exit the case vehicle. The right-front passenger remained inside the vehicle at final rest and was found lying on the roof of the vehicle. She was unconscious and was unable because of her injuries to exit the case vehicle.

**Police:** The investigating police agency was notified of the accident within four minutes and arrived on-scene within fourteen minutes. Traffic control procedures were established and emergency medical and towing services were called to assist.

**Rescue:** The driver was transported by ambulance to a medical facility where he was treated and released. The right-front passenger was pronounced dead at the scene. She was subsequently transported to a medical facility where an autopsy was performed.

**Removal:** Following the police investigation, the case vehicle was towed from the scene.

**HUMAN FACTORS/OCCUPANT DATA****Case Vehicle**

<b><u>Driver:</u></b>	43 year-old male
<b>Height:</b>	71 inches
<b>Weight:</b>	205 pounds
<b>Occupation:</b>	Sales representative

**HUMAN FACTORS/OCCUPANT DATA (CONT'D.)****Case Vehicle**

Active Restraint System/Usage:	3-point lap and shoulder/used
Usage Source:	Driver interview/medical records
Eye glasses/contacts:	None
Vehicle Familiarity:	Eight months
Route Familiarity:	First time on trafficway
Trip Plan:	Attend a festival in another county
Manner of Leaving Scene:	Ambulance
Type of Medical Treatment:	Treated and released

<b><u>Passenger:</u></b>	33 year-old female
Seated Position:	Front-right
Height:	67 inches
Weight:	120 pounds
Active Restraint System/Usage:	3-point lap and shoulder/not used
Usage Source:	Driver interview/Police Accident Report
Manner of Leaving Scene:	Ambulance
Type of Medical Treatment:	None - Dead at scene

**DRIVER INJURIES**

<b><u>Injury</u></b>	<b><u>Severity (OIC/AIS)</u></b>	<b><u>Source</u></b>
Sprain right knee	KRSJ-1	Center instrument panel

**PASSENGER INJURIES**

<b><u>Injury</u></b>	<b><u>Severity (OIC/AIS)</u></b>	<b><u>Source</u></b>
Fracture/dislocation of atlanto-occipital joint	NPZV-2	Roof side rail

**PASSENGER INJURIES (CONT'D.)**

<u>Injury</u>	<u>Severity (OIC/AIS)</u>	<u>Source</u>
		<u>Right-side door interior surface excluding hardware</u>
Fracture right 5-9 ribs	CRFS-4	
Laceration abdominal aorta	MCLA-4	
Laceration right lung	CRLP-3	
Laceration liver	MRLL-2	
Laceration spleen	MLLQ-2	

**DRIVER KINEMATICS**

The driver of the case vehicle was seated in an upright position using the available active 3-point lap and shoulder restraint. The driver steered the case vehicle as evidenced by the vehicle's right roadside departure and subsequent reentry onto the roadway. There is no evidence or driver indication of braking during the vehicle's travel on either the north grassy shoulder or on the south grassy shoulder near impact.

The driver moved toward the center of the instrument panel as a result of the vehicle's impact with the medium-sized tree. The active restraint worn by the driver and the air bag prevented him from contacting the windshield, steering wheel, upper instrument panel, or front-right passenger. Evidence indicates the driver contacted the lower center instrument panel and the air bag.

The impact with the several small trees occurred right after the main impact and was of little consequence energy-wise. This impact probably did not change the driver's kinematics. During the rollover the driver remained restrained by the 3-point lap and shoulder belt which held him essentially in place throughout the roll. At final rest the driver was held by the active restraint system in an upside-down position as the vehicle came to rest on its top.

**PASSENGER KINEMATICS**

The front-right passenger in the case vehicle was seated in an unbelted upright posture. During the vehicle's counterclockwise rotation and the driver's steering maneuvers the passenger's posture probably changed very little. The passenger most likely loaded into the front-right door.

At impact the passenger heavily loaded the right-front door and roof side rail area as they were being crushed inward toward her. This kinematic pattern is consistent with the right side injuries she sustained. The passenger probably rebounded backwards against the her seatback or the driver due to the extensive intrusion into her occupant space. Once again, the impact with the several small trees made little or no difference in her movements. During the

**PASSENGER KINEMATICS (CONT'D.)**

roll the passenger reloaded the right-front door area with her head upwards against the roof.

At final rest the passenger was lying on the roof under the driver.

**AIR BAG SYSTEM**

Deployment Threshold:	Unknown
Airbag Diameter (seam-to-seam, deflated):	24 inches
Number of Vent Holes:	Two
Vent Hole Diameter:	Not measured
Vent Hole Clock Positions:	3 and 9 o'clock
Generant Residue:	None noted

**SELECTED PRINTS**





# 01 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Path of travel & departure



# 02 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Right tire scuffs in reentry



# 03 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Right scuffs in CCW rotation



# 04 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Broadside slide into impact





# 05 -- , 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Looking back from impact



# 06 -- , 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Taurus left frontal view



# 07 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Front left leftside view



# 08 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Rear left rearside view





# 09 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Full view of rear plane



# 10 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Right rear rightside view



# 11 -- , 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Right front rightside view



# 12 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Closeup of tree impact





# 13 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Front right frontal view



# 14 -- 1990  
Indiana  
TRC/IU: 90-03, Task: 0070  
Sky view from left side



# 15 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Sky view from right side



# 16 -- 1990  
 Indiana  
 TRC/IU: 90-03, Task: 0070  
 Interior viewed from rear



**SLIDE INDEX**

## SLIDE INDEX

Slide No.	Description	Direction
1	Path of vehicle travel, and location where vehicle departs onto right shoulder (yellow flags equal right side tires; red flags equal left side tires)	West
2-7	Right side of vehicle on north shoulder; vehicle is in a slight counterclockwise yaw	West
8	Right side of vehicle reenters roadway from north shoulder	West
9,10	Right side tires mark on roadway--vehicle continues in counterclockwise rotation	West
11-14	Vehicle departs south side of roadway while continuing its counterclockwise rotation into impact with tree (cone represents original location of tree)	West
15-16	Looking back from point of impact with tree	East
17	Looking back from area where vehicle first departed onto north shoulder	East
18-27	Overview of exterior damage to case vehicle (counterclockwise direction around vehicle)	
28-30	Front damage with contour gauge in place	
31,32	Sky view showing crush to right front door area	
33-36	Crush documentation with contour gauge in place	
37	Contour rod depicts Principal Direction of Force (PDOF approximately 30-40 degrees) of tree into right front door	
38	View showing height of direct contact damage	
39-41	Damage to windshield with areas of "holed" glazing	
42-45	Interior of case vehicle showing deployed air bag and area of intrusions	

**SLIDE INDEX**

<b>Slide No.</b>	<b>Description</b>	<b>Direction</b>
46-52	Interior showing right side intrusions and occupant contacts	
53,54	Left rear door: latch/striker-damage, damaged during extraction	



IN 9003 #1



IN 9003 #2



IN 9003 #3



IN 9003 #4



IN 9003 #5





IN 9003 #6



IN 9003 #7



IN9003 #8



IN 9003 #9



IN 9003 #10



IN 9003 #11



IN9003 #12



IN 9003 #13





IN 9003 #14



IN9003 #15



IN 9003 #16



IN9003 #17



IN9003 #18



IN 9003 #19



IN 9003 #20



IN9003 #21





IN 9003 #22



IN9003 #23



IN 9003 #24



IN 9003 #25  
Best Available



IN 9003 #26



IN 9003 #27



IN9003 #28

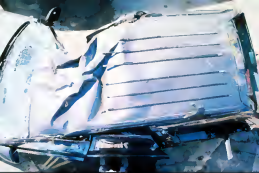


IN 9003 #29





IN 9003 #30



IN9003 #31



IN 9003 #32



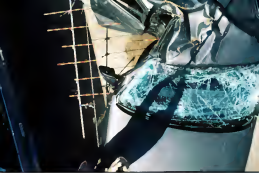
IN 9003 #33



IN 9003 #34



IN 9003 #35



IN 9003 #36



IN 9003 #37





IN 9003 #38  
Best Available



IN 9003 #39



IN 9003 #40  
Best Available



IN 9003 #41



IN 9003 #42  
Best Available



IN 9003 #43  
Best Available



IN 9003 #44  
Best Available



IN 9003 #45  
Best Available





IN 9003 #46  
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IN 9003 #47  
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IN 9003 #48  
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IN 9003 #49  
Best Available



IN 9003 #50  
Best Available



IN 9003 #51

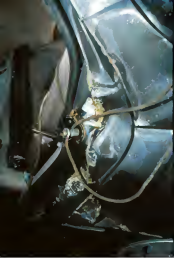


IN 9003 #52  
Best Available



IN 9003 #53





IN 9003 #54

**Accident Collision Measurement Table**



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number 10

Case Number - Stratum 9003

ACCIDENT COLLISION DIAGRAM		CRASH DATA		
<b>LEVEL I</b> <b>PHYSICAL EVIDENCE ABSENT</b> To be accomplished when there is no physical evidence present at the scene: *approximate vehicle orientation at impact and final rest *applicable road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, etc.) *applicable traffic controls (e.g., speed limit) *north arrow placed on diagram *sketch required	<b>LEVEL II (Cont'd)</b> accomplished when physical evidence is present: *document reference point and reference line relative to physical features present at the scene *scaled documentation of all accident induced physical evidence *scaled documentation of all roadside objects contacted *roadway surface type and condition of applicable roadway *grade measurements for all applicable roadways *scaled representations of the vehicle(s) at pre-impact, impact, and final rest based upon either: a) physical evidence, or b) reconstructed accident dynamics	VEH. #1 Heading Angle _____ Surface Type <u>Asphalt</u> Surface Condition <u>Dry</u> Grade Measurement (v/h) <u>1.5" 24" neg.</u>	VEH. #2 _____ _____ _____	VEH. #3 _____ _____ _____
<b>LEVEL II</b> <b>PHYSICAL EVIDENCE PRESENT</b> In addition to the Level I tasks noted above, the following must be				

Reference Point: Utility Pole on N side of road

Reference Line: RL#1 N. Road Edge  
RL#2 S. Road Edge

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
1 RF Vt leaves road - rt. shoulder	262.2 E	00
2 Midpt of RF on shoulder	219.9 E	3.4 N
3 ER leave road - rt shoulder	219.9 E	0.0
4 RF midpt. on shoulder	178.8 E	4.0 N
5 RR midpt. on shoulder	178.3 E	2.9 N
6 Gauge on rt. shoulder (middle)	166. E	1.4 N
7 RR midpt. on shoulder	150. E	3.5 N
8 RF midpt. on shoulder	150. E	3.5 N
9 RR diverge from RF	100. E	3.7 N
10 RF diverge from RR	100. E	3.7 N
11 RR midpt. on shoulder	50. E	4.5 N
12 RF midpt. on shoulder	50 E	2.5 N

RL#1

RL# 2

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
13. RF enters roadway	25. W	20. N
14. RE midpt on shoulder	25. W	22.2 N
15. RF midpt on roadway	62.0 W	15.3 N
16. RR enters roadway	62.0 W	20.0 N
17. Hedge (3.5 x 1.5) mid O	67.8 W	20.5 N
18. RE scuffs enter road	82.8 W	16.3 N
19. LF leave road, enter left shoulder	118.7 W	0.0
20. Ditch on left shoulder (6" x 12")	128.5 W	2.3 S
21. RF leave road onto left shoulder	132. W	0.0
22. LR leave road	143.5 W	0.0
23. RE leave road	151.2 W	0.0
24. LR midpt on shoulder	155.5 W	5.3 S
25. RF midpt	155.5 W	10.2 S
26. LF midpt	155.5 W	13.5 S
27. Ditch (3.0 x 3.0) in dirt	165.1 W	14.4 S
28. RR midpt	180.0 W	9.6 S
29. LR midpt	180.0 W	11.6 S
30. RF midpt.	180. W	18.0 S
31. LF midpt.	190.0 W	20.2 S
32. RR ends	195.1 W	13.8 S
33. LR ends	195. W	16.9 S
34. RF ends	196.7 W	23.2 S
35. LF ends	199.0 W	25.0 S
36. Tree stump (mid-section)	200.4 W	20.7 S
37. Small tree	198.1 W	27.4 S
38. Midpt. of final rest area	214.1 W	20.5 S
39. Road width = 20.1		

**Appendix A:**

**Police Accident Report**

## INDIANA OFFICER'S STANDARD ACCIDENT REPORT

OFFICE USE ONLY

Accident ID No

Mail to: Indiana State Police, Accident Records Section  
Indianapolis, IN

Date of Accident MONTH DAY YEAR 10 10 90	Day of Week SUNDAY	Actual Local Time 1:00 PM	No. Motor Vehicles 1	No. Injured 1	No. Dead 1	No. Trainers
County [REDACTED]		Township [REDACTED]		City/Town or Nearest City/Town [REDACTED]		
Inside Corporate Limits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Property? <input type="checkbox"/> Private <input checked="" type="checkbox"/> Other		Distance and Direction From Corporate Limits 3 1/2 Miles North 1 1/2 Miles East		
Road Accident Occurred On CR [REDACTED]		Intersecting Road/Mile Marker/Interchange				
If not at intersection, number of feet from 68'		Direction East		Nearest Intersecting Road/Mile Marker/Interchange CR [REDACTED]		

Driver's Name (Last, First, MI) [REDACTED]			
Address (Street, City, State, Zip) [REDACTED]			
Apparent Phys. Stat. (enter no.) 1	Sex M	Date of Birth MONTH DAY YEAR [REDACTED]	Arrested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Driver's License No. [REDACTED]	Lic. Type OM	Lic. St. IN	Restr. [REDACTED]
Color GRY	Veh. Yr. 90	Make Ford	Model Name Taurus (4W)
Veh. Type (enter no.) 1	Lic. Yr. 90	License No. [REDACTED]	Lic. State IN
Veh. Use (enter no.) 1	Speed Limit 55	Fuel Tax No.	
Direction of Travel West	No. Occupants 2	Fire? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No. Axles 2
Towed To [REDACTED]		Towed By [REDACTED]	

Registered Owner's Name (Last, First, MI) [REDACTED]			
Address (Street, City, State, Zip) [REDACTED]			
Registered Owner's Name (Last, First, MI) [REDACTED]			
Address (Street, City, State, Zip) [REDACTED]			
License No.	Make	Year	Lic. St. Lic. Yr.

INITIAL IMPACT VI 4 V2	Areas Damaged (Multiples) 3K 4K 6K 10 - Undercarriage 2 9 8 11 - Trailer 1 8 7 12 - None
DAMAGE EST VI 6 V2	OTHER PROPERTY (INCLUDE CARGO) Name of Object OWNER'S NAME NO ADDRESS Damage Est. (use chart)

Direction [REDACTED]	Street/Highway [REDACTED]	Arrested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Apparent Phys. Stat. (enter no.) [REDACTED]
What was pedestrian doing before accident? Enter No. 1 Not in roadway 2 Standing in roadway 3 Playing in roadway 4 Pushing or working on vehicle 5 Other working in roadway 6 Walking in roadway with traffic 7 Walking in roadway against traffic 8 Getting on or off vehicle 9 Getting on or off school bus 10 Crossing or entering not at intersection 11 Crossing or entering at intersection 12 Other			
Pedestrian Traffic Control? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

16	17	18	19	20	21	22	23	24	25	26	27	28	29
6	1	1		DRIVER OF VEHICLE 1 (as listed above)	B	5	4	1	3		2	1	
1	3	1	1	DRIVER OF VEHICLE 2 (as listed above)									
						8	2	6	3	33	F	1	

Diagram

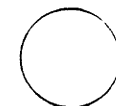
Indicate NORTH  
by an arrow

Diagram Attached

## NARRATIVE (Refer to Vehicle by Number)

Veh #1 was westbound on CR [REDACTED] north. Veh #1 went off the north side of the roadway to avoid Veh X which crested a hill and was left of center. Veh #1 reentered the roadway and driver lost control. Vehicle skid broadside thru the grass before striking a tree stump and flipped onto its top.

D1 Insured By [REDACTED]				D2 Insured By [REDACTED]			
Other Participant(s) Name, Address (etc.) [REDACTED]							
Name of Witness No. 1			Address			Location at Time of Accident	
Name of Witness No. 2			Address			Location at Time of Accident	
Name of Person Arrested			I.C. Code(s)		Name of Person Arrested		I.C. Code(s)
Time Notified	<input checked="" type="checkbox"/> AM	Time Arrived	<input checked="" type="checkbox"/> AM	Other Location of Investigation		Investigation Complete	Photos Taken
Assisting Officer	[REDACTED]	[REDACTED]	[REDACTED]	Hospital		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Assisting Officer			I.D. No.		Agency		Person at Report
Assisting Officer			I.D. No.		Agency		Driver Report Form Furnished
Signature			I.D. No.		Agency		<input checked="" type="checkbox"/> D1 <input checked="" type="checkbox"/> D2

## INITIAL CASE REPORT

SHERIFF

DEPARTMENT

Page 1	Of	Case No. [REDACTED]
-----------	----	------------------------

Offense <b>Death Investigation</b>				Supervisory Correction No. 2 or 3			
Victim's Name (or if Business, list Incorporated Name) [REDACTED]						Responsible Party	
Victim's Address (Street, City, State, Zip) [REDACTED]						Home Phone Business Phone	
Victim's Sex F	Race W	DOB	Age 33	SSN	Describe Injury Multiple Traumatic/External		Place of Treatment Morgue
Month of Occurrence	Day	Year 1990	Time [REDACTED] AM/PM	Month Reported	Day	Year 90	Time [REDACTED] AM/PM
Received by PE [REDACTED]		Reported by (Name) [REDACTED]		[REDACTED]			
Home Phone Business Phone		Exact Location of Offense [REDACTED] 68 ft. [REDACTED]					

Was there a witness to the crime?

☐ No

If marked YES, a supplemental page listing witnesses must be included.

Suspect? ☐ Named ☐ Known ☐ Known Location ☐ Identified ☐ Previously Seen ☐ Description ☐ No

If marked YES, supplemental page required, giving information and explanation as to why person is listed.

Vehicle Identified? ☐ Suspect ☐ Stolen ☐ Recipient ☐ Other ☐ No

Vehicle Make: Ford Color: Gray Year: '90 Model: Taurus Body: Wgn Lic. Pl: IN VIN: [REDACTED] Where Made: Northwest

☐ Significant M.O. or☐ Limited Opportunity to Commit the Crime?☐ No

Describe Significant M.O. and/or Limited Opp. Use Block Space in Narrative, if necessary.

Motive

Was Item?

☐ Traceable Property☐ Significant Physical Evidence?☐ No

Scene Processing

☐ Photo ☐ Fingerprint ☐ Other

PE# Process Officer

Forced Entry

Yes ☐ No ☐

Describe force

PROPERTY STOLEN:

ID #

Value

NARRATIVE: On [REDACTED]-90 at approximately [REDACTED] AM the above vehicle was involved in an auto on [REDACTED] N [REDACTED] just east of [REDACTED] W. The victim was a passenger in the above vehicle. The victim was pronounced dead at the scene by Coroner [REDACTED]. See attached supplements and accident report.

Victim's signature

Initial Officer Status <input type="checkbox"/> Active <input type="checkbox"/> Suspended <input type="checkbox"/> Unfounded <input checked="" type="checkbox"/> Cleared		Recommend to Continue <input type="checkbox"/> Field <input type="checkbox"/> Investigation	Initial Officer's Name, PE, Date [REDACTED]
Field Supervisor Status <input type="checkbox"/> Agree <input type="checkbox"/> Disagree		Recommend to Continue <input type="checkbox"/> Field <input type="checkbox"/> Investigation <input type="checkbox"/> Suspend	Field Supervisor's Name, PE, Date [REDACTED]
Investigative Coordinator <input type="checkbox"/> Field <input type="checkbox"/> Status Investigation		Assigned Investigator Initial, PE, Date [REDACTED]	



# SUPPLEMENTAL CASE REPORT

Page 2 of 2		Case No. [REDACTED]
Offense <b>Death Investigation</b>		Supervisory Correction No. 2 or 3
Victim Name (or If Business list Incorporated Name) [REDACTED]		Responsible Party [REDACTED]
BLOCK SPACE	<p>On [REDACTED]-90 at approximately [REDACTED] AM I was notified of an auto accident on CR [REDACTED] East of CR [REDACTED] W. I arrived at the scene at [REDACTED] AM. Upon arrival the scene was assessed, points of particular attention relative to accident reconstruction were noted. Tire prints from the vehicle were found in the grass off the north edge of the roadway. Tire marks were found coming back onto the roadway. These tire marks were curved and had striations, indicating that the vehicle sideslipped. These marks left the southside of the roadway and continued across a grassy area to a large clump of brush, small trees, and a large tree stump. The vehicle was sitting on its top in a brushy area. The victim was still in the vehicle. The scene was then measured by members of the accident reconstruction team. Officer [REDACTED] was assigned to supervise measurements and complete a scale diagram of the scene. Officer [REDACTED] took photographs of the scene and was assigned to complete the Ind. standard accident report. Officer [REDACTED] was assigned the task of obtaining a statement from the driver and a legal blood alcohol test from the same.</p> <p>As a result of evidence collected at the scene it was determined that the vehicle was travelling west on Cr [REDACTED] east of CR [REDACTED]. The vehicle left the northside of the road. The driver steered left to bring the vehicle back onto the road, over-correcting. the vehicle began to sideslip rotating counter-clockwise. the vehicle left the the southside of the road sliding thru a grassy area and struck a large tree stump that was surrounded by small trees and brush. The vehicle the overturned coming to rest on its top.</p> <p>A speed estimate of 44.5 MPH was made by using the critical speed formula. Results of a medical legal examination determined that the victim died from exsanguination due to multiple internal injuries that occurred as a direct result of the auto accident.</p> <p>The driver of the vehicle stated that he was forced off the road by an oncoming motor vehicle, possibly a Chev wagon, that was left of center as it crested the hill east of the accident scene.</p>	
Initial Officer's Status <input type="checkbox"/> Active <input type="checkbox"/> Suspended <input type="checkbox"/> Unfounded <input checked="" type="checkbox"/> Cleared		Recommend to Continue <input type="checkbox"/> Field <input type="checkbox"/> Investigative
Assigned Investigator Status <input type="checkbox"/> Active <input type="checkbox"/> Suspended <input type="checkbox"/> Unfounded <input checked="" type="checkbox"/> Cleared		Initial Officer's Name, PE, Date [REDACTED] 90
		Total Value Recovered (State)

## SUPPLEMENTAL CASE REPORT

Page of

Case No.

Offense

FATAL ACCIDENT INQUIRY.

Supervisory Correction No. 2 or 3

Victim Name (or if Business Use, Incorporated Name)

Responsible Party

BLOCK  
SPACE

N. ON THIS DATE, THIS OFFICER WAS SENT TO [REDACTED] HOSPITAL EMERGENCY ROOM REF TO [REDACTED] ON [REDACTED] & [REDACTED] EMTS BROUGHT IN [REDACTED] HE WAS THE DRIVER, OF A 1990 TARAUS WAGON.

N. BLOOD SAMPLES WERE TAKEN FOR ALCOHOL & DRUGS.

N. [REDACTED] STATED THAT HE WAS WB ON [REDACTED] W. OF [REDACTED]. AS HE TOPPED A HILL, HE [REDACTED] SAID A MARON CHEVY WAS IN HIS LANE OF TRAVEL. [REDACTED] STATED IF HE STAYED IN THE WB LANE, HE WOULD HAVE HIT THE MARON VEHICLE. HE STEERED RIGHT TO AVOID A COLLISION, LEAVING THE ROADWAY TO THE RIGHT. AFTER THE MARON VEHICLE GOT BY, [REDACTED] STEERED BACK TO LEFT. [REDACTED] SAID THE VEHICLE WENT BACK ACROSS THE ROAD, AND THATS WHEN THE ACCIDENT HAPPENED.

N. [REDACTED] STATED THAT AFTER THE ACCIDENT, A MAN & HIS SON HELPED HIM OUT OF THE VEHICLE.

Total Value Recovered (Station)

Initial Officer's Status

☐ Active ☐ Suspended ☐ Unfounded ☒ Cleared

Recommend to Continue

☐ Field ☐ Investigative

Initial

Assigned Investigator Status

☐ Active ☐ Suspended ☐ Unfounded ☐ Cleared

Final Status (Investigative Coordinator)



## SUPPLEMENTAL CASE REPORT

Page of		Case No.
Offense <b>FATAL ACCIDENT INVESTIGATION</b>		Supervisory Correction No. 2 or 3
Victim Name (or if Business list Incorporated Name) <b>[REDACTED] - DRIVER [REDACTED] PASSENGER</b>		Responsible Party
BLOCK SPACE	<p>ARRIVED AT [REDACTED] NORTH &amp; [REDACTED] WEST AT 10:49 AM. SEVERAL [REDACTED] VOLUNTEERS WERE AT THE SCENE AND THEY WERE TRYING DOORS OPEN ATTEMPTING TO GET SUBJECTS OUT. THE MALE WAS GOTTEN OUT AS I WALKED UP TO THE CAR. HE WAS PLACED ON A BACK BOARD AND PLACED IN THE NORTH SIDE OF [REDACTED] NORTH. AN OBSERVER (SON OF VOLUNTEER) STATED THAT [REDACTED] TOLD HIM THAT A MARQUA CHEVELLE WAGON WAS LEFT OF CENTER AND HE SWERVED TO MISS IT. ANOTHER LADY CAME UP TO ME AND SAID SHE THOUGHT HE SWERVED TO MISS A DOG. [REDACTED] (SEE STATEMENT) COMMENTED TO HIM <sup>AFTER</sup> HE WAS <sup>REMOVED FROM</sup> VEHICLE ABOUT 006 AND HE MENTIONED THE MARQUA CHEVELLE WAGON TO HER. ATTEMPTS WERE CONTINUING TO EXTRACT FEMALE. ALSO [REDACTED] VOLUNTEER FIRE CHIEF TOLD ME WHEN I ARRIVED THAT SHE WAS BREATHING BUT IN BAD SHAPE. SEVERAL MINUTES LATER HE TOLD ME TO GET THE COLOUNDER. I TOOK A VOLUNTARY STATEMENT FROM [REDACTED] AT THE REQUEST OF [REDACTED] HER HUSBAND REVIEWED IT AND AGREED WITH IT. ALSO AT SCENE [REDACTED] 2 STATE POLICE UNITS AND ACCIDENT RECON. TEAM</p> <p>SEE ATTACHED SHEET FOR NAMES OF PEOPLE I TALKED WITH AT SCENE.</p>	
		Total Value Recovered (Stolen)
Initial Officer's Status <input checked="" type="checkbox"/> Active <input type="checkbox"/> Suspended <input type="checkbox"/> Unfounded <input type="checkbox"/> Cleared		Recommendation to Continue <input type="checkbox"/> Field <input type="checkbox"/> Investigative
Assigned Investigator Status <input type="checkbox"/> Active <input type="checkbox"/> Suspended <input type="checkbox"/> Unfounded <input type="checkbox"/> Cleared		Final Status (Investigative Coordinator) [REDACTED] 90

## \* Serious Or Fatal Accident Measurements \*

RP2 = 8<sup>th</sup> N. of Pole # [REDACTED] ON SOUTH edge

\* Reference Point Is : RP2 = 241' E. of RP1

Reference Point To Objects Below :	NORTH	SOUTH	EAST	WEST
Veh # 1 → INVERTED				
R FRONT		24 <sup>4</sup>	58 <sup>b</sup>	
R REAR		17 <sup>b</sup>	57 <sup>9</sup>	
L REAR		18 <sup>3</sup>	50 <sup>8</sup>	
Tree <sup>TRUNK</sup> - STRUCK by V#1				
at when struck		20 <sup>11</sup>	68 <sup>3</sup>	
at REST under V#1		20 <sup>11</sup>	57 <sup>9</sup>	
center of outside end		21 <sup>3</sup>	61 <sup>9</sup>	
Skids - IN grass Sides of Road				
L FRONT		24 <sup>9</sup>	76 <sup>9</sup>	
R FRONT		22 <sup>b</sup>	76 <sup>9</sup>	
L REAR		15 <sup>1</sup>	76 <sup>9</sup>	
R REAR		13 <sup>10</sup>	76 <sup>9</sup>	
L FRONT		19 <sup>10</sup>	90 <sup>9</sup>	
R FRONT		17 <sup>7</sup>	90 <sup>9</sup>	
L REAR		11 <sup>1</sup>	90 <sup>9</sup>	
R REAR		9 <sup>3</sup>	90 <sup>9</sup>	
L FRONT			153 <sup>9</sup>	
R FRONT			145 <sup>9</sup>	
L REAR			130 <sup>9</sup>	
R REAR			119 <sup>9</sup>	
Skids enter N'side of Road	19 <sup>9</sup>		211 <sup>9</sup>	
	19 <sup>9</sup>		237 <sup>9</sup>	

Investigating Officers : \_\_\_\_\_

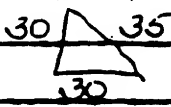
Traffic Engineer Assisting : \_\_\_\_\_

LOCATION : CH [REDACTED] N E of CH [REDACTED] W

DATE : [REDACTED] 1990 MT : [REDACTED] TIME : [REDACTED] AM

**\* Serious Or Fatal Accident Measurements \***

• Reference Point Is :  $RP1 =$  at the south edge of roadway of CA North of Pole #  
 $RP2 =$  at the south edge of CA N 24° East of RP1

Reference Point To Objects Below :	NORTH	SOUTH	EAST	WEST
<p>Road widths</p> <p>CA [redacted] N <math>\rightarrow 19^\circ</math></p> <p>CB [redacted] W <math>\rightarrow 15^\circ</math></p>				
<p>NW CORNER CB [redacted] W</p> <p>  </p> <p>chord = <math>20^\circ</math></p> <p>m.o = <math>2^\circ</math></p> <p>Radius = 21.25</p>				
<p>NE CORNER CB [redacted] W</p> <p>chord = <math>20^\circ</math></p> <p>m.o = <math>1^\circ</math></p> <p>Radius = 34.08</p>				
<p>Grade = Rise <math>4''</math></p> <p>Run = <math>100'</math></p> <p>% = 4.96%</p>				
Pole from BP 1	$29^\circ$		$29^\circ$	
<p>Yaw MARK</p> <p><math>40^\circ</math> = chord</p> <p><math>0^\circ</math> = m.o</p> <p>= Radius</p>				

Investigating Officers :

**Traffic Engineer Assistant**

Location : CA [redacted] Al. E of CR [redacted] W  
 DATE : [redacted] 1990 DAY : [redacted] TIME : [redacted] AM  
 Here

# After Accident Situation Map

Accident Report # [REDACTED]

On [REDACTED] Road [REDACTED] N. →

[REDACTED] W.

[REDACTED], INDIANA

[REDACTED] 1990 at [REDACTED]

Drawn by [REDACTED]

Assisting Officers: [REDACTED]

0 10 20  
Scale: 1 in. = 20

← C.R. [REDACTED] W

STOP

C.R. [REDACTED] N.

← YAW MARK

AP 2

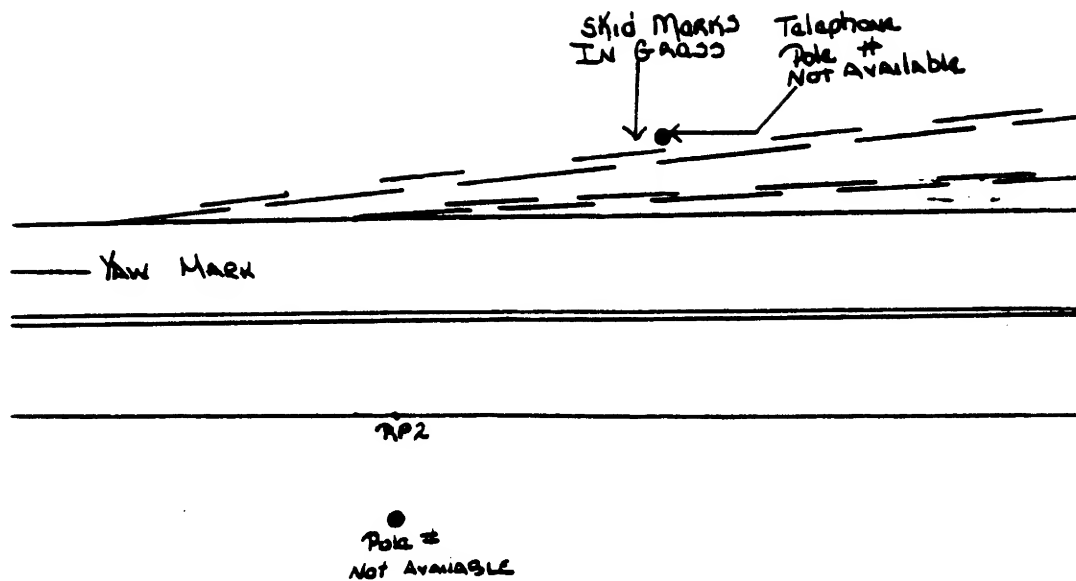
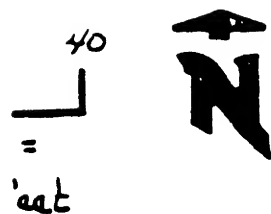
Pole # [REDACTED]

Tree Trunk

Tree Trunk

Original Position  
of Tree Trunk  
When Struck  
by Van # 1

SKID MARKS  
IN GRASS



%  
\* Grade of Roadway  
= 4.97%



**Appendix B:**

NASS Accident Form



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

<div style="display: flex; justify-content: space-between;"><div>1. Primary Sampling Unit Number <u>10</u></div><div>2. Case Number - Stratum <u>9003</u></div></div> <div style="text-align: center; background-color: black; color: white; padding: 2px; margin-top: 5px;"><b>IDENTIFICATION</b></div> <div>3. Number of General Vehicle Forms Submitted <u>01</u></div> <div>4. Date of Accident (Month, Day, Year) <u>          </u> / <u>9</u> / <u>0</u></div> <div>5. Time of Accident <u>          </u> Code reported military time of accident. NOTE: Midnight - 2400 Unknown - 9999</div>				<div style="text-align: center; background-color: black; color: white; padding: 2px; margin-bottom: 5px;"><b>SPECIAL STUDIES INDICATORS</b></div> <div>Check (✓) each special study (SS12-SS16 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.</div> <div style="display: flex; justify-content: space-between;"><div>6. <u>    </u> SS12 Not Active</div><div style="text-align: right;"><u>0</u></div></div> <div style="display: flex; justify-content: space-between;"><div>7. <input checked="" type="checkbox"/> SS13 AOPS</div><div style="text-align: right;"><u>1</u></div></div> <div style="display: flex; justify-content: space-between;"><div>8. <u>    </u> SS14 <u>                    </u></div><div style="text-align: right;"><u>0</u></div></div> <div style="display: flex; justify-content: space-between;"><div>9. <u>    </u> SS15 <u>                    </u></div><div style="text-align: right;"><u>0</u></div></div> <div style="display: flex; justify-content: space-between;"><div>10. <u>    </u> SS16 <u>                    </u></div><div style="text-align: right;"><u>0</u></div></div>			
<div style="text-align: center; background-color: black; color: white; padding: 2px; margin-bottom: 5px;"><b>NUMBER OF EVENTS</b></div> <div>11. Number of Recorded Events in This Accident <u>03</u></div> <div>Code the number of events which occurred in this accident.</div>							
<b>ACCIDENT EVENTS</b>							
For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.							
Accident Event Sequence Number	Vehicle Number	Class of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class of Vehicle	General Area of Damage	
12. <u>01</u>	13. <u>01</u>	14. <u>03</u>	15. <u>R</u>	16. <u>42</u>	17. <u>00</u>	18. <u>0</u>	
19. <u>02</u>	20. <u>01</u>	21. <u>03</u>	22. <u>F</u>	23. <u>41</u>	24. <u>00</u>	25. <u>0</u>	
26. <u>03</u>	27. <u>01</u>	28. <u>03</u>	29. <u>T</u>	30. <u>31</u>	31. <u>00</u>	32. <u>N</u>	
33. <u>04</u>	34. <u>    </u>	35. <u>    </u>	36. <u>    </u>	37. <u>    </u>	38. <u>    </u>	39. <u>    </u>	
40. <u>05</u>	41. <u>    </u>	42. <u>    </u>	43. <u>    </u>	44. <u>    </u>	45. <u>    </u>	46. <u>    </u>	
IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENTS SUPPLEMENT							

**Appendix C:**

NASS Vehicle Forms



Department of Transportation  
National Highway Traffic Safety  
Administration

# GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 10

2. Case Number - Stratum 7003

3. Vehicle Number 01

## VEHICLE IDENTIFICATION

4. Vehicle Model Year 90

Code the last two digits of the model year  
(99) Unknown

5. Vehicle Make (specify): 12

Applicable codes are found in your  
NASS CDS Data Collection, Coding, and  
Editing Manual.  
(99) Unknown

6. Vehicle Model (specify): 017

Taurus (Wagon) GL  
Applicable codes are found in your  
NASS CDS Data Collection, Coding, and  
Editing Manual.  
(99) Unknown

7. Body Type 06

Note: Applicable codes are found on  
the back of this page.

8. Vehicle Identification Number

1FACP5745LG [REDACTED]

Left justify; Slash zeros and letter Z (0 and Z)  
No VIN - Code all zeros  
Unknown - Code all nine's

## OFFICIAL RECORDS

9. Police Reported Vehicle Disposition 1

(0) Not towed due to vehicle damage  
(1) Towed due to vehicle damage  
(9) Unknown

10. Police Reported Travel Speed 99

Code to the nearest mph (NOTE: 00 means  
less than 0.5 mph)  
(97) 96.5 mph and above  
(99) Unknown

11. Police Reported Alcohol or Drug Presence 0

(0) Neither alcohol nor drugs present  
(1) Yes (alcohol present)  
(2) Yes (drugs present)  
(3) Yes (alcohol and drugs present)  
(4) Yes (alcohol or drugs present - specifics  
unknown)  
(7) Not reported  
(8) No driver present  
(9) Unknown

12. Alcohol Test Result for Driver 97

Code actual value (decimal implied before  
first digit - 0.xx)  
(95) Test refused  
(96) None given  
(97) AC test performed, results unknown  
(98) No driver present  
(99) Unknown

Source \_\_\_\_\_

## ACCIDENT RELATED

13. Speed Limit 55

(00) No statutory limit  
Code posted or statutory speed limit  
(99) Unknown

14. Attempted Avoidance Maneuver 09

(00) No impact  
(01) No avoidance actions  
(02) Braking (no lockup)  
(03) Braking (lockup)  
(04) Braking (lockup unknown)  
(05) Releasing brakes  
(06) Steering left  
(07) Steering right  
(08) Braking and steering left  
(09) Braking and steering right  
(10) Accelerating  
(11) Accelerating and steering left  
(12) Accelerating and steering right  
(97) No driver present  
(98) Other action (specify):  
\_\_\_\_\_

(99) Unknown

15. Accident Type 07

Applicable codes may be found on the back  
of page two of this field form  
(00) No impact  
Code the number of the diagram that  
best describes the accident circumstance  
(98) Other accident type (specify):  
\_\_\_\_\_

(99) Unknown

\*\*\*\* STOP HERE IF GV07 DOES NOT EQUAL 01-49 \*\*\*\*

## National Accident Sampling System – Crashworthiness Data System: General Vehicle Form

Page 2

**OCCUPANT RELATED**

16. Driver Presence in Vehicle 1  
 (0) Driver not present  
 (1) Driver present  
 (9) Unknown
17. Number of Occupants This Vehicle 02  
 (00-96) Code actual number of occupants  
 for this vehicle  
 (97) 97 or more  
 (99) Unknown
18. Number of Occupant Forms Submitted 02

**VEHICLE WEIGHT ITEMS**

19. Vehicle Curb Weight 03,200  
3244 Code weight to nearest  
 100 pounds.  
 (010) Less than 1050 pounds  
 (135) 13,500 lbs or more  
 (999) Unknown  
 Source: [REDACTED]
20. Vehicle Cargo Weight 0000  
 Code weight to nearest  
 100 pounds.  
 (00) Less than 50 pounds  
 (97) 9,650 lbs or more  
 (99) Unknown

**RECONSTRUCTION DATA**

21. Towed Trailing Unit 0  
 (0) No towed unit  
 (1) Yes – towed trailing unit  
 (9) Unknown
22. Documentation of Trajectory Data  
 for This Vehicle 1  
 (0) No  
 (1) Yes
23. Post Collision Condition of Tree or Pole  
 (for Highest Delta V) 5  
 (0) Not collision (for highest delta V) with  
 tree or pole  
 (1) Not damaged  
 (2) Cracked/sheared  
 (3) Tilted < 45 degrees  
 (4) Tilted > 45 degrees  
 (5) Uprooted tree  
 (6) Separated pole from base  
 (7) Pole replaced  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown

24. Rollover 2  
 (0) No rollover (no overturning)  
 Rollover (primarily about the longitudinal axis):  
 (1) Rollover, 1 quarter turn only  
 (2) Rollover, 2 quarter turns  
 (3) Rollover, 3 quarter turns  
 (4) Rollover, 4 or more quarter turns (specify):  
 \_\_\_\_\_  
 (5) Rollover – end-over-end (i.e., primarily  
 about the lateral axis)  
 (9) Rollover (overturn), details unknown

**OVERRIDE/UNDERRIDE (THIS VEHICLE)**

25. Front Override/Underride (this vehicle) 0
26. Rear Override/Underride (this vehicle) 0  
 (0) No override/underride, or  
 not an end-to-end impact  
 Override (see specific CDC)  
 (1) 1st CDC  
 (2) 2nd CDC  
 (3) Other not automated CDC (specify):  
 \_\_\_\_\_  
 Underride (see specific CDC)  
 (4) 1st CDC  
 (5) 2nd CDC  
 (6) Other not automated CDC (specify):  
 \_\_\_\_\_  
 (7) Medium/heavy truck override  
 (9) Unknown

**HEADING ANGLE AT IMPACT FOR  
HIGHEST DELTA V**

Values: (000)-(359) Code actual value  
 (997) Noncollision  
 (998) Impact with object  
 (999) Unknown

27. Heading Angle for This Vehicle 998
28. Heading Angle for Other Vehicle 998

## National Accident Sampling System – Crashworthiness Data System: General Vehicle Form

Page 3

## 29. Basis for Total Delta V (Highest)

5

Delta V Calculated

- (1) CRASH program – damage only routine
- (2) CRASH program – damage and trajectory routine
- (3) Missing vehicle algorithm

Delta V Not Calculated

- (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
- (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction techniques, regardless of adequacy of damage data.
- (6) All vehicles and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.

## COMPUTER GENERATED DELTA V

## 30. Total Delta V

Secondary Highest

99

\_\_\_\_ Nearest mph

(NOTE: 00 means less than  
0.5 mph)  
(97) 96.5 mph and above  
(99) Unknown

## 31. Longitudinal Component of Delta V

+ 99

\_\_\_\_ Nearest mph

(NOTE: \_\_00 means greater than  
- 0.5 and less than +0.5 mph)  
(± 97) ± 96.5 mph and above  
(\_\_ 99) Unknown

Secondary Highest

## 32. Lateral Component of Delta V

+ 99

\_\_\_\_ Nearest mph

(NOTE: \_\_00 means greater than  
- 0.5 and less than +0.5 mph)  
(± 97) ± 96.5 mph and above  
(\_\_ 99) Unknown

## 33. Energy Absorption

999,900

\_\_\_\_ Nearest 100 foot-lbs

(NOTE: 0000 means less than 50 Foot-Lbs)  
(9997) 999,650 foot-lbs or more  
(9999) Unknown

## 34. Confidence in Reconstruction Program Results (for Highest Delta V)

0

- (0) No reconstruction
- (1) Collision fits model – results appear reasonable
- (2) Collision fits model – results appear high
- (3) Collision fits model – results appear low
- (4) Borderline reconstruction – results appear reasonable

## 35. Type of Vehicle Inspection

1

- (0) No inspection
- (1) Complete inspection
- (2) Partial inspection (specify):

## 36. Is this an AOPS Vehicle?

1

(0) No

(1) Yes

- Driver not Airbag

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), \*\*\*  
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.



US Department of Transportation  
National Highway Traffic Safety  
Administration

## EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 10

3. Vehicle Number 01

2. Case Number - Stratum 9003

### VEHICLE IDENTIFICATION

VIN 1FHCPS745LG

Model Year 1990

Vehicle Make (specify): FORD

Vehicle Model (specify): TAURUS LUGAN

### LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L	Location of Maximum Crush
1	Begin 36" forward R Rattle	Begin 22" forward R Rattle	C3
2	Entire front	Entire front	C1

### CRUSH PROFILE

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

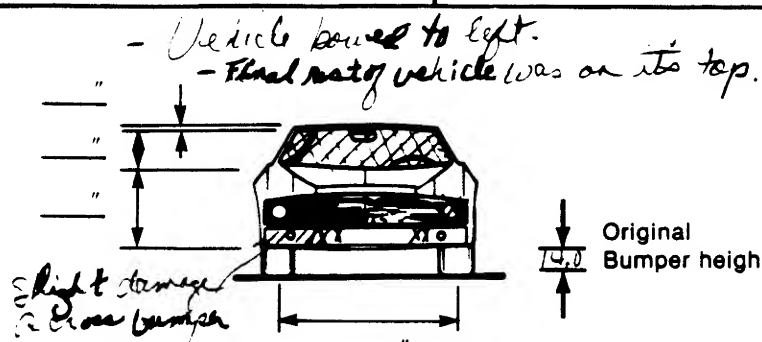
Specific Impact Number	Plane of C-Measurements	Direct Damage		Field L	C1	C2	C3	C4	C5	C6	±D
		Width (CDC)	Max Crush								
1	Mid door	14.0	C3	42.0	2.5	16.0	34.0	28.5	15.0	7.25	+2.0
2	Front bumper	60.0	C1	60.0	12.5	6.5	7.0	6.5	7.0	10.0	0.0
	Bumper taper				5.0	2.5	1.0	1.0	2.5	5.0	
	Stand adjustment				5.5	5.5	5.5	5.5	5.5	5.5	
	Actual Crush				2.0	.5	.5	0.0	0.0	0.0	0
3	Top ** scratches no crush taken										
	* Struts for frontal damage set @ 62" forward of L and R "hubs"										
	front bumper where rear of hood meet windshield										
	Exemption = 56.5"										

## National Accident Sampling System – Crashworthiness Data System: Exterior Vehicle Form

2d

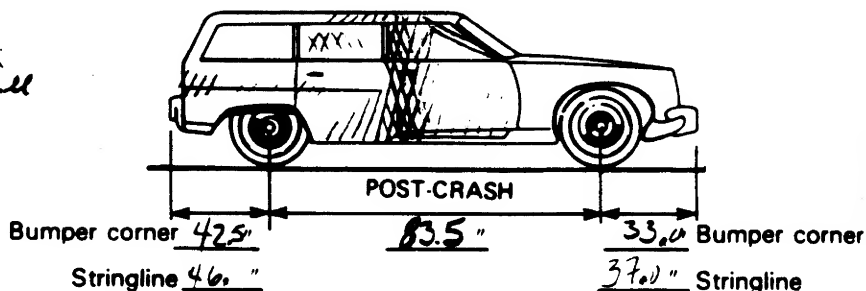
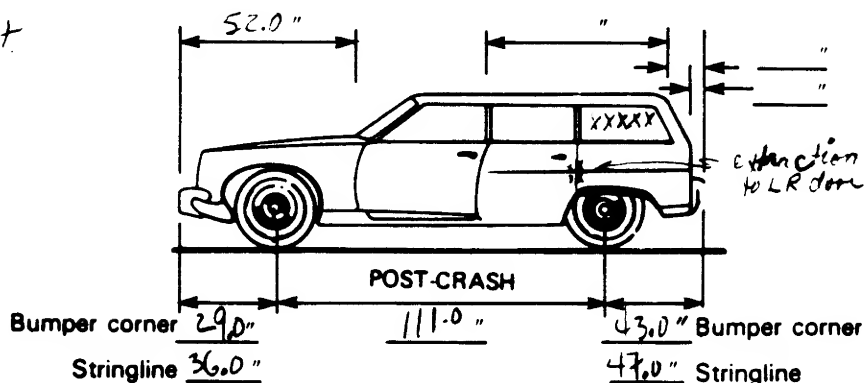
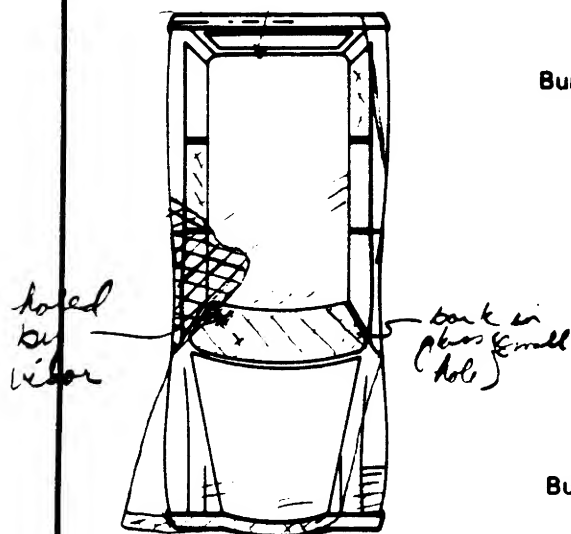
## VEHICLE DAMAGE SKETCH

<b>TIRE – WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>1</u> RR <u>3</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>b. Tire deflated</b> RF <u>1</u> LF <u>2</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>106.0</u> Overall Length <u>191.1</u> Maximum Width <u>70.8</u> Curb Weight <u>3244</u> Average Track <u>61.9 / 59.9</u> Front Overhang <u>40.0</u> Rear Overhang <u>46.9</u> Engine Size: cyl./ displ. <u>V6 / 3.8 L</u> Undeformed End Width <u>60.0</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF $\pm$ <u>    </u> ° LF $\pm$ <u>10</u> ° RR $\pm$ <u>    </u> ° LR $\pm$ <u>    </u> ° Within $\pm 5$ degrees	
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic				<b>DRIVE WHEELS</b> <input type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD		Approximate Cargo Weight <u>0</u>	



- vehicle bowed to left as a result of the impact.

Scuffs on top (Trails over)



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.  
Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.





**COLLISION DEFORMATION CLASSIFICATION**

## HIGHEST DELTA "V"

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>01</u>	5. <u>42</u>	6. <u>61</u>	7. <u>R</u>	8. <u>P</u>	9. <u>A</u>	10. <u>W</u>	11. <u>05</u>

## Second Highest Delta "V"

12. <u>02</u>	13. <u>41</u>	14. <u>09</u>	15. <u>F</u>	16. <u>D</u>	17. <u>L</u>	18. <u>S</u>	19. <u>01</u>
---------------	---------------	---------------	--------------	--------------	--------------	--------------	---------------

**CRUSH PROFILE**

(The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. ALL MEASUREMENTS ARE IN INCHES.)

## HIGHEST DELTA "V"

20. L	21. C1	C2	C3	C4	C5	C6	22. + - D
<u>042</u>	<u>03</u>	<u>16</u>	<u>34</u>	<u>29</u>	<u>15</u>	<u>07</u>	<u>002</u>

## Second Highest Delta "V"

23. L	24. C1	C2	C3	C4	C5	C6	25. + - D
<u>060</u>	<u>02</u>	<u>01</u>	<u>01</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>000</u>

26. Are CDCs Documented but Not Coded on The Automated File  
(0) No  
(1) Yes

1

27. Researcher's Assessment of Vehicle Disposition  
(0) Not towed due to vehicle damage  
(1) Towed due to vehicle damage  
(9) Unknown

1

28. Original Wheelbase  
Code to the nearest tenth of an inch  
(9999) Unknown

1060

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*  
(I.E., GV09 = 0 OR 9), DO NOT COMPLETE THE INTERIOR VEHICLE FORM.



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

# INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 10

2. Case Number - Stratum 9003

3. Vehicle Number 01

## INTEGRITY

### 4. Passenger Compartment Integrity 06

(00) No integrity loss

Yes, Integrity Was Lost Through

(01) Windshield

(02) Door (side)

(03) Door/hatch (rear)

(04) Roof

(05) Roof glass

(06) Side window

(07) Rear window

(08) Roof and roof glass

(09) Windshield and door (side)

(10) Windshield and roof

(11) Side and rear window

(12) Windshield and side window

(13) Door and side window

(98) Other combination of above (specify):

(99) Unknown

### Door, Tailgate Or Hatch Opening

5. LF 3 6. RF 3 7. LR 3 8. RR 3 9. TG/H 1

(0) No door/gate/hatch

(1) Door/gate/hatch remained closed and operational

(2) Door/gate/hatch came open during collision

(3) Door/gate/hatch jammed shut

(8) Other (specify):

(9) Unknown

### Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If None, Enter Code 0.

10. LF 0 11. RF 0 12. LR 0 13. RR 0 14. TG/H 0

(0) No door/gate/hatch or door not opened

Door, Tailgate, or Hatch Came Open During Collision

(1) Door operational (no damage)

(2) Latch/striker failure due to damage

(3) Hinge failure due to damage

(4) Door structure failure due to damage

(5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage

(6) Latch/striker and hinge failure due to damage

(8) Other failure (specify):

(9) Unknown

## GLAZING

### Glazing Damage from Impact Forces

15. WS 2 16. LF 0 17. RF 6 18. LR 0 19. RR 6  
20. BL 0 21. Roof 8 22. Other 6

(0) No glazing damage from impact forces

(2) Glazing in place and cracked from impact forces

(3) Glazing in place and holed from impact forces

(4) Glazing out-of-place (cracked or not) and not holed from impact forces

(5) Glazing out-of-place and holed from impact forces

(6) Glazing disintegrated from impact forces

(7) Glazing removed prior to accident

(8) No glazing

(9) Unknown if damaged

### Glazing Damage from Occupant Contact

23. WS 1 24. LF 0 25. RF 0 26. LR 0 27. RR 1  
28. BL 0 29. Roof 0 30. Other 0

(0) No occupant contact to glazing or no glazing

(1) Glazing contacted by occupant but no glazing damage

(2) Glazing in place and cracked by occupant contact

(3) Glazing in place and holed by occupant contact

(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact

(5) Glazing out-of-place by occupant contact and holed by occupant contact

(6) Glazing disintegrated by occupant contact

(9) Unknown if contacted by occupant

If No Glazing Damage **And** No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0

### Type of Window/Windshield Glazing

31. WS 1 32. LF 0 33. RF 2 34. LR 0 35. RR 2  
36. BL 0 37. Roof 0 38. Other 2

(0) No glazing contact and no damage, or no glazing

(1) AS-1 - Laminated

(2) AS-2 - Tempered

(3) AS-3 - Tempered-tinted

(4) AS-14 - Glass/Plastic

(8) Other (specify):

(9) Unknown

### Window Precrash Glazing Status

39. WS 1 40. LF 0 41. RF 9 42. LR 0 43. RR 9  
44. BL 0 45. Roof 0 46. Other 1

(0) No glazing contact and no damage, or no glazing

(1) Fixed

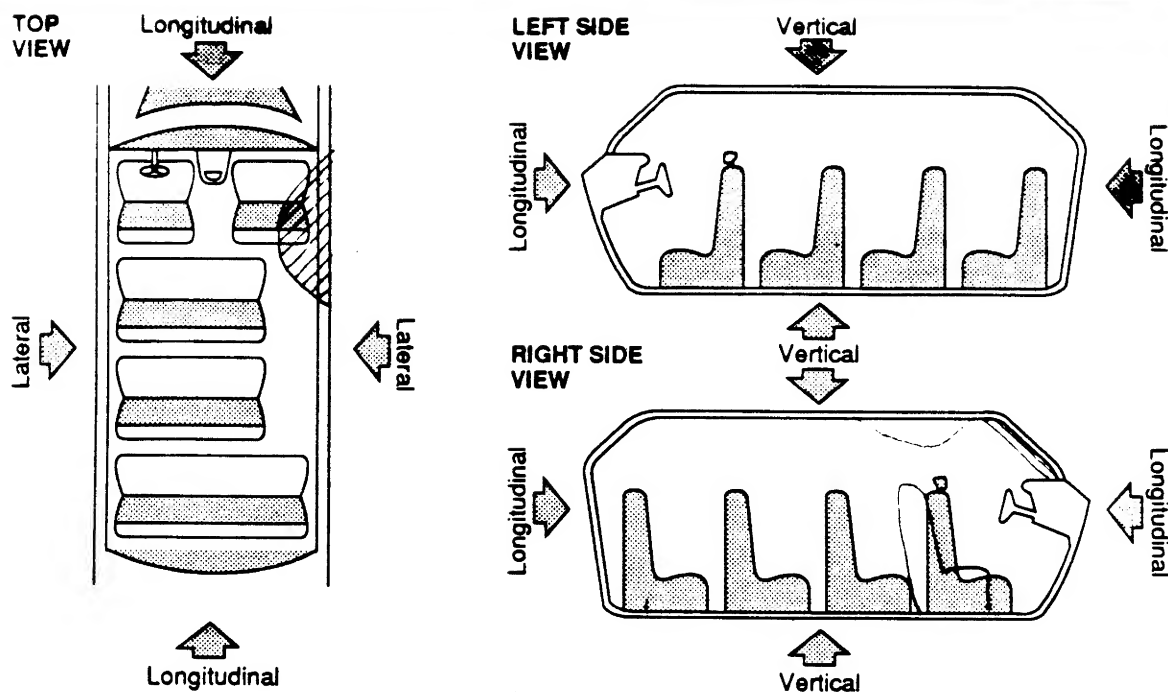
(2) Closed

(3) Partially opened

(4) Fully opened

(9) Unknown

## INTRUSION WORK SHEET



LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	-	INTRUDED VALUE	=	INTRUSION	DOMINANT CRUSH DIRECTION
13	Door Panel	22.0	-	6.0	=	16.0	Lat
13	Roof Side Rail	24.0	-	9.0	=	15.0	Lat
13	A-pillar	24.0	-	12.0	=	12.0	Lat.
23	B-pillar	25.0	-	11.0	=	14.0	Lat.
13	Sill	22.0	-	8.0	=	14.0	Lat.
23	Door panel	23.0	-	12.0	=	11.0	Lat.
13	Windshield header *	"Estimated value"				4.0	long.
23	Front seat back *	"Estimated value"				9.0	long.
13	Roof	45.5	-	41.5	=	4.0	vert.
12	Roof	45.5	-	41.0	=	4.5	vert.
13	Seat Cushion *	"Estimated value"				6.0	long.
13	Instrument panel *	"Estimated value"				3.0	long.
13	Trim Panel *	"Estimated value"				3.0	long.
23	Roof side rail	24.0	-	16.5	=	7.5	Lat.
13	Windshield *	"Estimated value"				8.0	long.

Document no more than the 15 most severe intrusions

## OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV 47-IV 86 blank.

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>1</u> <u>3</u>	48. <u>0</u>	49. <u>4</u>	50. <u>3</u>
2nd	51. <u>1</u> <u>3</u>	52. <u>3</u>	53. <u>4</u>	54. <u>3</u>
3rd	55. <u>2</u> <u>3</u>	56. <u>0</u> <u>7</u>	57. <u>4</u>	58. <u>3</u>
4th	59. <u>1</u> <u>3</u>	60. <u>2</u> <u>6</u>	61. <u>4</u>	62. <u>3</u>
5th	63. <u>2</u> <u>3</u>	64. <u>1</u> <u>0</u>	65. <u>3</u>	66. <u>3</u>
6th	67. <u>2</u> <u>3</u>	68. <u>1</u> <u>3</u>	69. <u>3</u>	70. <u>3</u>
7th	71. <u>1</u> <u>3</u>	72. <u>1</u> <u>4</u>	73. <u>3</u>	74. <u>2</u>
8th	75. <u>1</u> <u>3</u>	76. <u>1</u> <u>5</u>	77. <u>2</u>	78. <u>2</u>
9th	79. <u>1</u> <u>3</u>	80. <u>2</u> <u>4</u>	81. <u>2</u>	82. <u>2</u>
10th	83. <u>1</u> <u>2</u>	84. <u>1</u> <u>2</u>	85. <u>2</u>	86. <u>1</u>

## LOCATION OF INTRUSION

Front Seat  
 (11) Left  
 (12) Middle  
 (13) Right

Second Seat  
 (21) Left  
 (22) Middle  
 (23) Right

Third Seat  
 (31) Left  
 (32) Middle  
 (33) Right

Fourth Seat  
 (41) Left  
 (42) Middle  
 (43) Right

(97) Catastrophic  
 (98) Other enclosed area (specify): \_\_\_\_\_

(99) Unknown

## INTRUDING COMPONENT

## Interior Components

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A-pillar
- (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Door panel
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan
- (18) Backlight header
- (19) Front seat back
- (20) Second seat back
- (21) Third seat back
- (22) Fourth seat back
- (23) Fifth seat back
- (24) Seat cushion
- (25) Back panel or door surface
- (26) Other interior component (specify):  
floor sill
- (27) Side panel - forward of the A-pillar
- (28) Side panel - rear of the A-pillar

## Exterior Components

- (30) Hood
- (31) Outside surface of vehicle (specify): \_\_\_\_\_
- (32) Other exterior object in the environment (specify): \_\_\_\_\_
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify): \_\_\_\_\_
- (99) Unknown

## MAGNITUDE OF INTRUSION

- (1)  $\geq 1$  inch but  $< 3$  inches
- (2)  $\geq 3$  inches but  $< 6$  inches
- (3)  $\geq 6$  inches but  $< 12$  inches
- (4)  $\geq 12$  inches but  $< 18$  inches
- (5)  $\geq 18$  inches but  $< 24$  inches
- (6)  $\geq 24$  inches
- (7) Catastrophic
- (9) Unknown

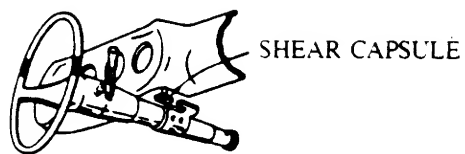
## DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

## STEERING COLUMN WORKING DIAGRAMS

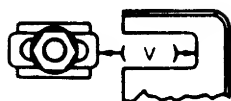
### STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



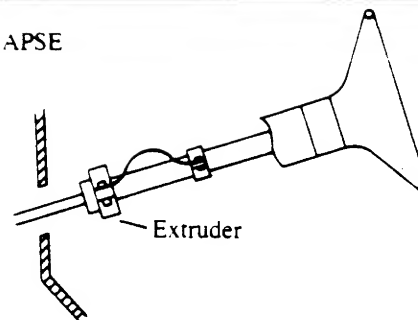
SHEAR CAPSULE

Left —



Right — V = ———"

Direction and Magnitude of Steering Column Movement



Extruder

After Compression

Flare Tube

Possible Remaining Starter Grooves At 6 and 12 o'clock

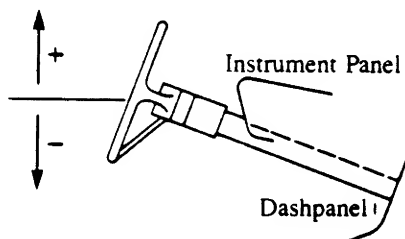
Extruder

Compression = Measurement A

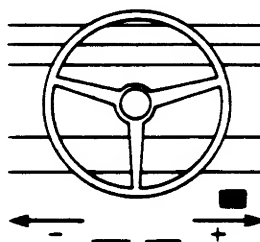
A = ———

### STEERING COLUMN MOVEMENT

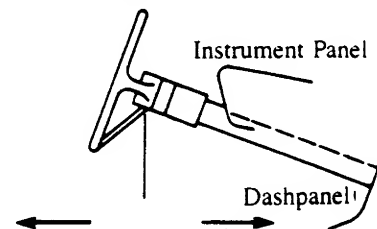
Vertical Movement



Lateral Movement



Longitudinal Movement



	COMPARISON VALUE — DAMAGED VALUE = MOVEMENT
VERTICAL	* no apparent movement - unable to measure
LATERAL	intrusions/locked/jammed doors =
LONGITUDINAL	— =

### STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE — DAMAGED VALUE = DEFORMATION
— =
— =

## STEERING COLUMN

87. Steering Column Type 2

- (1) Fixed column  
 (2) Tilt column  
 (3) Telescoping column  
 (4) Tilt and telescoping column  
 (8) Other column type (specify):  
 \_\_\_\_\_

(9) Unknown

If PDOF  $\neq$  11, 12 or 1, Then Code IV88-IV91 As 9688. Steering Column Collapse Due to Occupant Loading 96

\_\_\_\_\_ Code actual measured movement to the nearest inch. See coding manual for measurement technique(s).

- (00) No movement, compression, or collapse  
 (01-19) Actual measured value  
 (20) 20 inches or greater

Estimated movement from observation

- (81) Less than 1 inch  
 (82)  $\geq$  1 inch but  $<$  2 inches  
 (83)  $\geq$  2 inches but  $<$  4 inches  
 (84)  $\geq$  4 inches but  $<$  6 inches  
 (85)  $\geq$  6 inches but  $<$  8 inches  
 (86) Greater than or equal to 8 inches  
 (96) Not assessed (PDOF  $\neq$  11, 12, 1)  
 (97) Apparent movement, value undetermined or cannot be measured or estimated  
 (98) Nonspecified type column  
 (99) Unknown

## Direction And Magnitude of Steering Column Movement

89. Vertical Movement 9690. Lateral Movement 9691. Longitudinal Movement 96

Code the actual measured movement to the nearest inch. See Coding Manual for measurement technique(s)

- (00) No steering column movement  
 ( $\pm$  01 –  $\pm$  49) Actual measured value  
 ( $\pm$  50) 50 inches or greater

Estimated movement from observation

- ( $\pm$  81)  $\geq$  1 inch but  $<$  3 inches  
 ( $\pm$  82)  $\geq$  3 inches but  $<$  6 inches  
 ( $\pm$  83)  $\geq$  6 inches but  $<$  12 inches  
 ( $\pm$  84)  $\geq$  12 inches  
 (\_\_\_ 96) Not assessed (PDOF  $\neq$  11, 12, 1)  
 (\_\_\_ 97) Apparent movement  $>$  1 inch but cannot be measured or estimated  
 (\_\_\_ 99) Unknown

92. Steering Rim/Spoke Deformation 2

\_\_\_\_\_ Code actual measured deformation to the nearest inch.

- (0) No steering rim deformation  
 (1-5) Actual measured value  
 (6) 6 inches or more  
 (8) Observed deformation cannot be measured  
 (9) Unknown

93. Location of Steering Rim/Spoke Deformation 22

(00) No steering rim deformation

Quarter Sections

- (01) Section A  
 (02) Section B  
 (03) Section C  
 (04) Section D



Half Sections

- (05) Upper half of rim/spoke  
 (06) Lower half of rim/spoke  
 (07) Left half of rim/spoke  
 (08) Right half of rim/spoke



- (09) Complete steering wheel collapse  
 (10) Undetermined location  
 (99) Unknown

## INSTRUMENT PANEL

94. Odometer Reading 022,000

22,281 miles – Code mileage to the nearest 1,000 miles

- (000) No odometer  
 (001) Less than 1,500 miles  
 (300) 299,500 miles or more  
 (999) Unknown

Source: Inspection95. Instrument Panel Damage from Occupant Contact? 1

- (0) No  
 (1) Yes  
 (9) Unknown

96. Knee Bolsters Deformed from Occupant Contact? 8

- (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

97. Did Glove Compartment Door Open During Collision(s)? 1

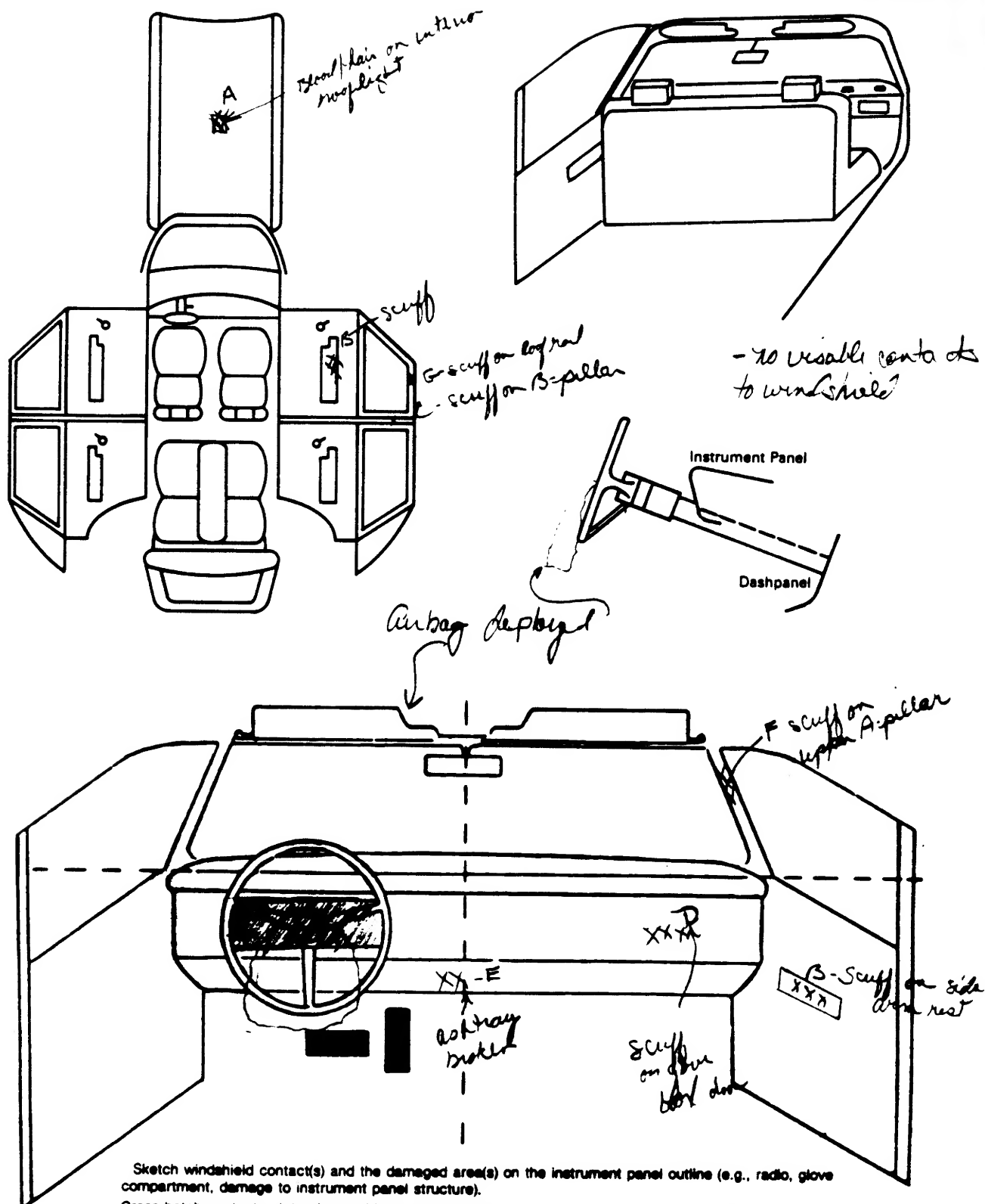
- (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

## National Accident Sampling System - Crashworthiness Data System: Interior Vehicle Form

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## VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.



## National Accident Sampling System - Crashworthiness Data System: Interior Vehicle Form

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## POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Roof - 54	2	Head	Blood / missing left hand / hair	1
B	R-door - 31	2	Chest/abdomen	Scuffs	1
C	B-pillar - 33	2	Head	Scuff	1
D	R-instrument 11	2	Knee	Scuff on dashboard	1
E	C-instrument 12	1	Knee	Gash - broken	1
F	A-pillar - 32	2	Head	Scuff	1
G	R-door - 34	2	Head	Scuff	1
H					
I					
J					
K					
L					
M					
N					

## CODES FOR INTERIOR COMPONENTS

## FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

## LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify):

## RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify):

## INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):

- (47) Interior loose objects

- (48) Child safety seat (specify):

- (49) Other interior object (specify):

## ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

## FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

## REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

## CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (4) Unknown

## AUTOMATIC RESTRAINTS

**NOTES:** Encode the data for each applicable front seat position. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S T	Availability	1	0	0
	Function	4	0	0
	Failure	1	0	0

### Automatic (Passive) Restraint System Availability

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): \_\_\_\_\_
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### Automatic (Passive) Restraint Function

- (0) Not equipped/not available
- Automatic Belt
  - (1) Automatic belt in use
  - (2) Automatic belt not in use
  - (3) Automatic belt use unknown
- Air Bag
  - (4) Airbag deployed during accident
  - (5) Airbag deployed inadvertently just prior to accident
  - (6) Deployed, accident sequence undetermined
  - (7) Nondeployed
  - (8) Unknown if deployed
  - (9) Unknown

### Did Automatic (Passive) Restraint Fail

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (9) Unknown

## MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
FIRST	Availability	4	0	4
	Use	04	0	00
	Failure Modes	1	0	0
SECOND	Availability	4	3	4
	Use	0	0	0
	Failure Modes	0	0	0
THIRD	Availability			
	Use			
	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

## Manual (Active) Belt System Availability

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available - type unknown
- (8) Other belt (specify):

(9) Unknown

## Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown

(08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat - type unknown
- (18) Other belt used with child safety seat (specify):

(99) Unknown if belt used

## Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

- (6) Broken retractor
- (7) Combination of above (specify):

(8) Other manual belt failure (specify):

(9) Unknown

## National Accident Sampling System – Crashworthiness Data System: Interior Vehicle Form

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## HEAD RESTRAINTS SEAT EVALUATION

NOTES: Encode the applicable data for **each seat position** in the vehicle. The attributes for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
FIRST	Head Restraint Type/Damage	9 (removed)		3
	Seat Type	06		06
	Seat Performance	06		6
SECOND	Head Restraint Type/Damage	0	0	0
	Seat Type	05	05	05
	Seat Performance	1	1	1
THIRD	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
OTHER	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			

## Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral – no damage
- (2) Integral – damaged during accident
- (3) Adjustable – no damage
- (4) Adjustable – damaged during accident
- (5) Add-on – no damage
- (6) Add-on – damaged during accident
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

## Seat Type (This Occupant Position)

- (00) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify): \_\_\_\_\_
- (99) Unknown

## Seat Performance (This Occupant Position)

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify): \_\_\_\_\_
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_

(9) Unknown

13 { - Seat back displaced rearward  
 - Seat cushion displaced to left  
 11 - driver seat back (right) anchor pulled away from seat cushion.

## DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E. UNUSUAL OCCUPANT CONTACT PATTERN)


**EJECTION/ENTRAPMENT DATA**

Complete the following if the researcher has any indications that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form.

**EJECTION** No [ ☒ ] Yes [ ☐ ]

Describe indications of ejection and body parts involved in partial ejection(s):

---



---



---



---

Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						

**Ejection**

- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

**Ejection Area**

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

**(7) Roof**

- (8) Other area (e.g., back of pickup, etc.) (specify):

**(9) Unknown****Ejection Medium**

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

**(5) Integral structure**

- (8) Other medium (specify):

**(9) Unknown****Medium Status (Immediately Prior to Impact)**

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

**ENTRAPMENT**

No [ ☒ ] Yes [ ☐ ]

Describe entrapment mechanism: \_\_\_\_\_

---



---



---



---

Component(s): \_\_\_\_\_

(Note in vehicle interior diagram)

**Appendix D:**

**NASS Interview Form**



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## INTERVIEW FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number 10 Interviewee(s) Role(s) or Name(s) \_\_\_\_\_  
Case Number - Stratum 9003 Driver of case vehicle  
Vehicle Number 01

Review the Interview Cue Sheet prior to conducting interview(s) to ensure the acquisition of all pertinent data.

### GENERAL DESCRIPTION OF ACCIDENT SEQUENCE

Heading west on CR, other vehicle came over the hill in the middle of the road. I swerved to the right in order to avoid a head-on collision. I thought I was OK on the shoulder until I got to the top of the hill and the shoulder pattern out causing us to start sliding across the road. I thought we were just going to hit some small bushes but we hit a small tree with several branches coming out of the ground. We uprooted the tree and rolled over onto our top. Nobody hurt, not entrapped. - Door jammed: tried open key ~~\_\_\_\_\_~~

### SPECIFIC QUESTIONS

Est speed - 45-50 mph

- Had rain earlier but was overcast @ time of accident; road was dry
- Several small cuts (glass) getting out of car; wrenched my @ knee
- Trans + released from ~~\_\_\_\_\_~~ Hospital
- Missed 2 wks from work - due to injury to knee and mental effects of accidents

Key to Researcher: Have you obtained the following through the interviewee(s) description and specific questions?

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> PRE-CRASH, AT IMPACT                      | <input checked="" type="checkbox"/> Speed estimates (precrash/at impact) | <input checked="" type="checkbox"/> Previous vehicle damage - <del>_____</del> |
| <input type="checkbox"/> vehicle travel/driver intention           | <input type="checkbox"/> Glazing type                                    | <input type="checkbox"/> Glazing type  |
| <input type="checkbox"/> Direction of travel                       | <input checked="" type="checkbox"/> Post-impact trajectory               | <input type="checkbox"/> Vehicle glazing status                                |
| <input type="checkbox"/> Avoidance maneuvers                       | <input checked="" type="checkbox"/> Door status (precrash/postcrash)     | <input type="checkbox"/> PAR clarifications                                    |
| <input checked="" type="checkbox"/> Impact description/orientation | <input checked="" type="checkbox"/> Final rest position                  | <input type="checkbox"/> Glove box status                                      |

Cargo? No ☒ Yes ☐ Interviewee's Estimated Cargo Weight \_\_\_\_\_

Description of Cargo \_\_\_\_\_

Present Location of Vehicle (if not yet inspected)? \_\_\_\_\_

## National Accident Sampling System - Crashworthiness Data System: Interview Form

Page 2

## OCCUPANT DATA

Enter the occupant's seat position in the first row and complete the column below it using the information from the interviewee(s).

SEAT POSITION	11	13		
AGE/SEX	43/M	33/F		
HEIGHT (IN.)	71			
WEIGHT (LBS.)	205			
POSTURE	Normal	Normal		
EJECTED? [ <input checked="" type="checkbox"/> No [ ] Yes	No	No		
DESCRIBE THE EJECTION	N/A	N/A		
ENTRAPPED? [ <input checked="" type="checkbox"/> No [ ] Yes	No	No		
DESCRIBE ENTRAPMENT	N/A	N/A		
TYPE OF RESTRAINT AVAILABLE?	lap/shoulder + airbag	lap/shoulder		
HOW WERE THE BELTS WORN?	Properly worn	Not worn		
DESCRIBE ANY RESTRAINT FAILURE MODE	None	None		
TYPE OF TREATMENT	Treated + Released	Fatal		
DAYS IN HOSPITAL?	1	N/A		
NO. OF LOST WORK DAYS?	10	N/A		



## National Accident Sampling System - Crashworthiness Data System: Interview Form

Page 3

PSU Number \_\_\_\_\_ Case Number - Stratum 9003 Vehicle Number 01 Occupant Number 01

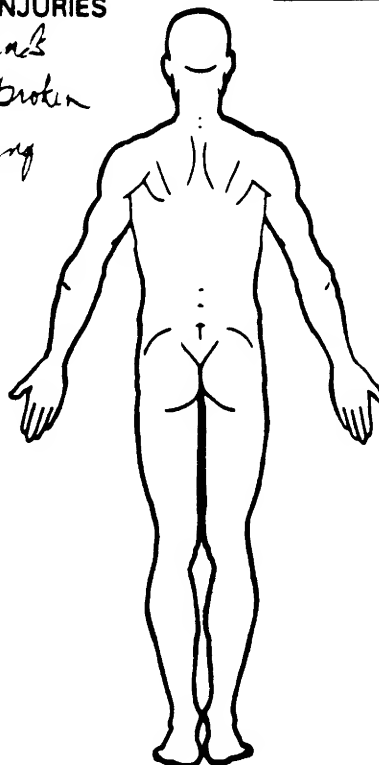
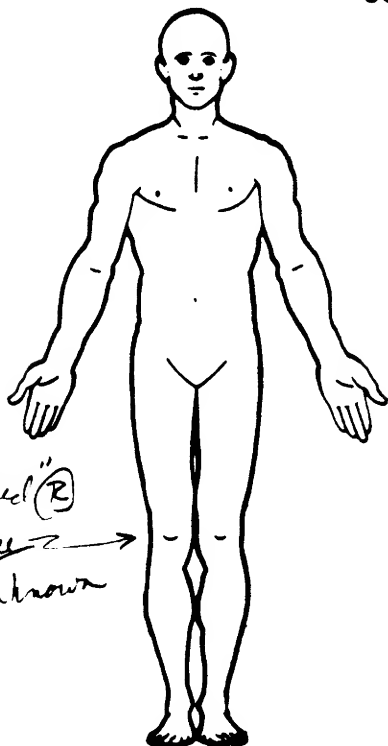
## INJURY DATA FROM INTERVIEWEE(S)

Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): Driver

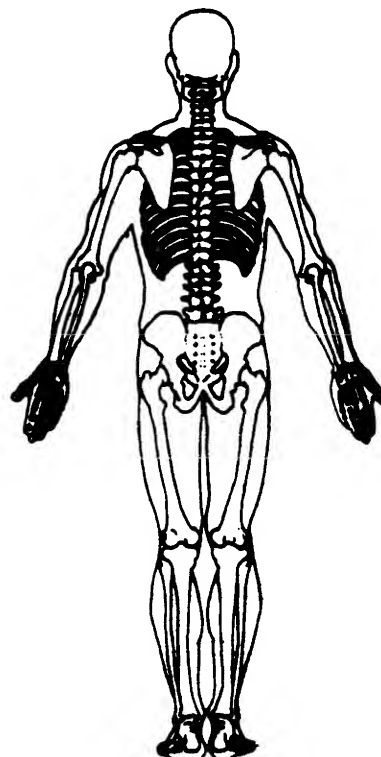
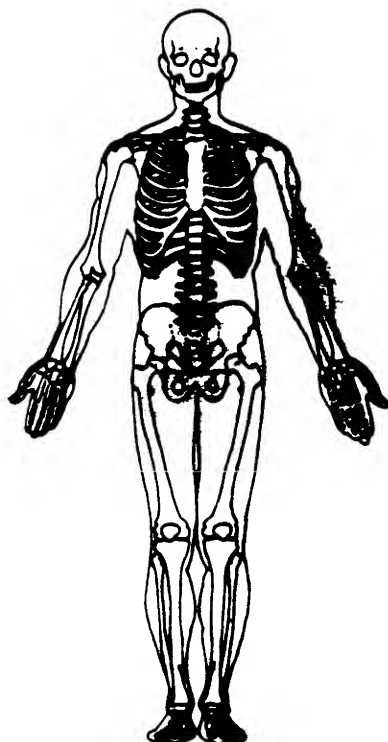
## SOFT TISSUE/INTERNAL INJURIES

Several cuts to hands  
(and face from broken  
glass. (crawling  
out of car)

"wrenched" (R)  
knee →  
unknown



## SKELETAL INJURIES



The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

**Appendix E:**

**NASS Occupant Forms**



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

# OCCUPANT ASSESSMENT FORM

Form Approved  
O.M.B. No. 2127-0021  
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

<p>1. Primary Sampling Unit Number <u>10</u></p> <p>2. Case Number - Stratum <u>9003</u></p> <p>3. Vehicle Number <u>01</u></p> <p>4. Occupant Number <u>01</u></p>	<p>11. Occupant's Posture <span style="float: right;"><u>0</u></span>          (0) Normal posture          (1) Abnormal posture (specify): _____          (9) Unknown</p>
<b>OCCUPANT'S CHARACTERISTICS</b>	
<p>5. Occupant's Age <span style="float: right;"><u>43</u></span>          Code actual age at time of accident.          (00) Less than one year old (specify by month): _____          (97) 97 years and older          (99) Unknown</p> <p>6. Occupant's Sex <span style="float: right;"><u>1</u></span>          (1) Male          (2) Female          (9) Unknown</p> <p>7. Occupant's Height <span style="float: right;"><u>71</u></span>          Code actual height to the nearest inch.          (99) Unknown</p> <p>8. Occupant's Weight <span style="float: right;"><u>205</u></span>          Code actual weight to the nearest pound.          (999) Unknown</p> <p>9. Occupant's Role <span style="float: right;"><u>1</u></span>          (1) Driver          (2) Passenger          (9) Unknown</p> <p>10. Occupant's Seat Position <span style="float: right;"><u>11</u></span>          Front Seat          (11) Left side          (12) Middle          (13) Right side          (14) Other (specify): _____          Second Seat          (21) Left side          (22) Middle          (23) Right side          (24) Other (specify): _____          Third Seat          (31) Left side          (32) Middle          (33) Right side          (34) Other (specify): _____          Fourth Seat          (41) Left side          (42) Middle          (43) Right side          (44) Other (specify): _____          (97) In or on unenclosed area          (98) Other seat (specify): _____          (99) Unknown</p>	<p style="text-align: center; background-color: black; color: white; padding: 5px;"><b>EJECTION/ENTRAPMENT</b></p> <p>12. Ejection <span style="float: right;"><u>0</u></span>          (0) No ejection          (1) Complete ejection          (2) Partial ejection          (3) Ejection, unknown degree          (9) Unknown</p> <p>13. Ejection Area <span style="float: right;"><u>0</u></span>          (0) No ejection          (1) Windshield          (2) Left front          (3) Right front          (4) Left rear          (5) Right rear          (6) Rear          (7) Roof          (8) Other area (e.g., back of pickup, etc.)          (specify): _____          (9) Unknown</p> <p>14. Ejection Medium <span style="float: right;"><u>0</u></span>          (0) No ejection          (1) Door/hatch/tailgate          (2) Nonfixed roof structure          (3) Fixed glazing          (4) Nonfixed glazing (specify): _____          (5) Integral structure          (8) Other medium (specify): _____          (9) Unknown</p> <p>15. Medium Status (Immediately Prior to Impact) <span style="float: right;"><u>0</u></span>          (0) No ejection          (1) Open          (2) Closed          (3) Integral structure          (9) Unknown</p> <p>16. Entrapment <span style="float: right;"><u>0</u></span>          (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)          (0) Not entrapped          (1) Entrapped          (9) Unknown</p>

## National Accident Sampling System - Crashworthiness Data System: Occupant Assessment Form

Page 2

## RESTRAINT SYSTEM AND SEAT EVALUATION

## 17. Manual (Active) Restraint Availability

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available - type unknown
- (8) Other belt (specify):

(9) Unknown

## 18. Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown
- (08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat - type unknown
- (18) Other belt used with child safety seat

(specify):

(99) Unknown if belt used

## 19. Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):

(8) Other improper use of manual belt system (specify):

(9) Unknown

## 20. Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

(6) Broken retractor

(7) Combination of above (specify):

(8) Other manual belt failure (specify):

(9) Unknown

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify):

- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

## 22. Automatic (Passive) Restraint Function

- (0) Not equipped/not available

Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just prior to accident
- (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

## 23. Did Automatic (Passive) Restraint Fail?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):

(9) Unknown

## 24. Police Reported Restraint Use

- (0) None used
- (1) Police did not indicate restraint use
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt used, type not specified
- (6) Child safety seat
- (7) Other or automatic restraint (specify):

(8) Restrained, type unknown

(9) Police indicated "unknown"

## 25. Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral - no damage
- (2) Integral - damaged during accident
- (3) Adjustable - no damage
- (4) Adjustable - damaged during accident
- (5) Add-on - no damage
- (6) Add-on - damaged during accident
- (8) Other (specify):

(9) Unknown + removed prior to inspection

**26. Seat Type (This Occupant Position)** 0 6

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify):

\_\_\_\_\_

(99) Unknown

**27. Seat Performance (This Occupant Position)** b

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):

Rt side frame seat back  
anchor is pulled away  
from the cushion

(7) Combination of above (specify):

\_\_\_\_\_

(8) Other (specify):

\_\_\_\_\_

(9) Unknown

**CHILD SAFETY SEAT****28. Child Safety Seat Make/Model** 0 0 0

- (000) No child safety seat
- Applicable codes are found in your NASS CDS Data Collection, Coding, and Editing Manual
- (997) Other make/model (specify):

\_\_\_\_\_

(998) Unknown make/model

(999) Unknown if child safety seat used

**29. Type of Child Safety Seat** 0

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify):

\_\_\_\_\_

(8) Unknown child safety seat type

(9) Unknown if child safety seat used

**30. Child Safety Seat Orientation** 2 2

(00) No child safety seat

Designed for Rear Facing for This Age/Weight

- (01) Rear facing
- (02) Forward facing
- (08) Other orientation (specify):

\_\_\_\_\_

(09) Unknown orientation

Designed for Forward Facing for This Age/Weight

- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):

\_\_\_\_\_

(19) Unknown orientation

Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight

- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):

\_\_\_\_\_

(29) Unknown orientation

(99) Unknown if child safety seat used

**31. Child Safety Seat Harness Usage** 0 0**32. Child Safety Seat Shield Usage** 0 0**33. Child Safety Seat Tether Usage** 0 0

Note: Options below applicable to Variables OA31-OA33.

(00) No child safety seat

Not Designed with

Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed with Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed with Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

## National Accident Sampling System – Crashworthiness Data System: Occupant Assessment Form

Page 4

**INJURY CONSEQUENCES****34. Injury Severity (Police Rating)** 2

- (0) O – No injury
- (1) C – Possible injury
- (2) B – Nonincapacitating injury
- (3) A – Incapacitating injury
- (4) K – Killed
- (5) U – Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

**35. Treatment – Mortality** 4

- (0) No treatment
- (1) Fatal
- (2) Fatal – ruled disease
- Nonfatal
- (3) Hospitalized
- (4) Transported and released
- (5) Treatment at scene – nontransported
- (6) Treatment later
- (8) Treatment – other (specify): \_\_\_\_\_

(9) Unknown

**36. Type of Medical Facility (for Initial Treatment)** 2

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify): \_\_\_\_\_

(9) Unknown

**37. Hospital stay** 00

- \_\_\_\_ Code number of days (up through 60) that the occupant stayed in the hospital
- (00) Not hospitalized
  - (61) 61 days or more
  - (99) Unknown

**38. Working Days Lost** 10

- \_\_\_\_ Code the number of days (up through 60) that the occupant lost from work due to the accident
- (00) No working days lost
  - (61) 61 days or more
  - (62) Fatally injured
  - (97) Not working prior to accident
  - (99) Unknown

**39. Time to Death** 00

- \_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)
- (00) Not fatal
  - (96) Fatal – ruled disease
  - (99) Unknown

**40. 1st Medically Reported Cause of Death** 00**41. 2nd Medically Reported Cause of Death** 00**42. 3rd Medically Reported Cause of Death** 00

- \_\_\_\_ Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death

- (00) Not fatal or no additional causes
- (97) Other result (specify): \_\_\_\_\_

(99) Unknown

**43. Number of Recorded Injuries for This Occupant** 01

- \_\_\_\_ Code the actual number of injuries recorded for this occupant.
- (00) No recorded injuries
  - (97) Injured, details unknown
  - (99) Unknown if injured

UPDATE CANDIDATE

NO [ ] YES [☒]

\*\*\* STOP HERE \*\*\*

IF THERE ARE NO RECORDED INJURIES

(I.E., OA43=00, 97, 99)



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## OCCUPANT INJURY FORM

Form Approved  
O.M.B. No. 2127-0021  
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number—Stratum

9003

4. Occupant Number

01

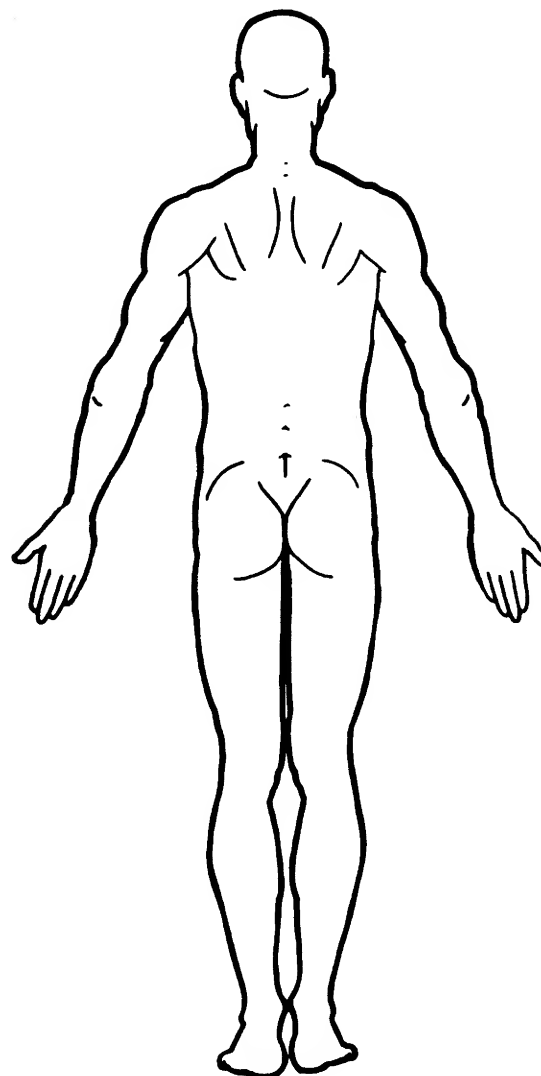
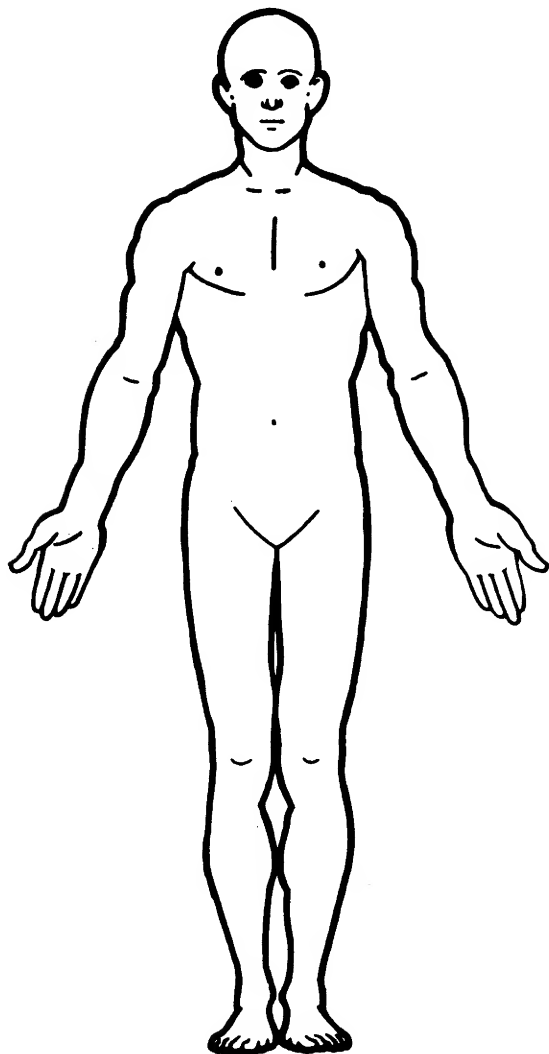
### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>F</u>	6. <u>K</u>	7. <u>R</u>	8. <u>S</u>	9. <u>J</u>	10. <u>1</u>	11. <u>10</u>	12. <u>3</u>	13. <u>1</u>	14. <u>00</u>
2nd	15. __	16. __	17. __	18. __	19. __	20. __	21. __	22. __	23. __	24. __
3rd	25. __	26. __	27. __	28. __	29. __	30. __	31. __	32. __	33. __	34. __
4th	35. __	36. __	37. __	38. __	39. __	40. __	41. __	42. __	43. __	44. __
5th	45. __	46. __	47. __	48. __	49. __	50. __	51. __	52. __	53. __	54. __
6th	55. __	56. __	57. __	58. __	59. __	60. __	61. __	62. __	63. __	64. __
7th	65. __	66. __	67. __	68. __	69. __	70. __	71. __	72. __	73. __	74. __
8th	75. __	76. __	77. __	78. __	79. __	80. __	81. __	82. __	83. __	84. __
9th	85. __	86. __	87. __	88. __	89. __	90. __	91. __	92. __	93. __	94. __
10th	95. __	96. __	97. __	98. __	99. __	100. __	101. __	102. __	103. __	104. __

## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

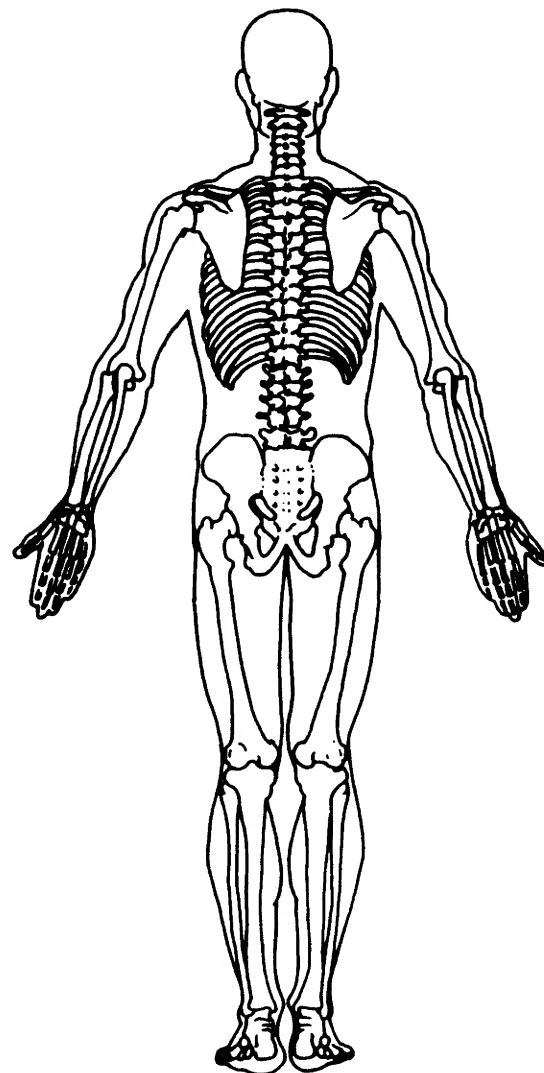
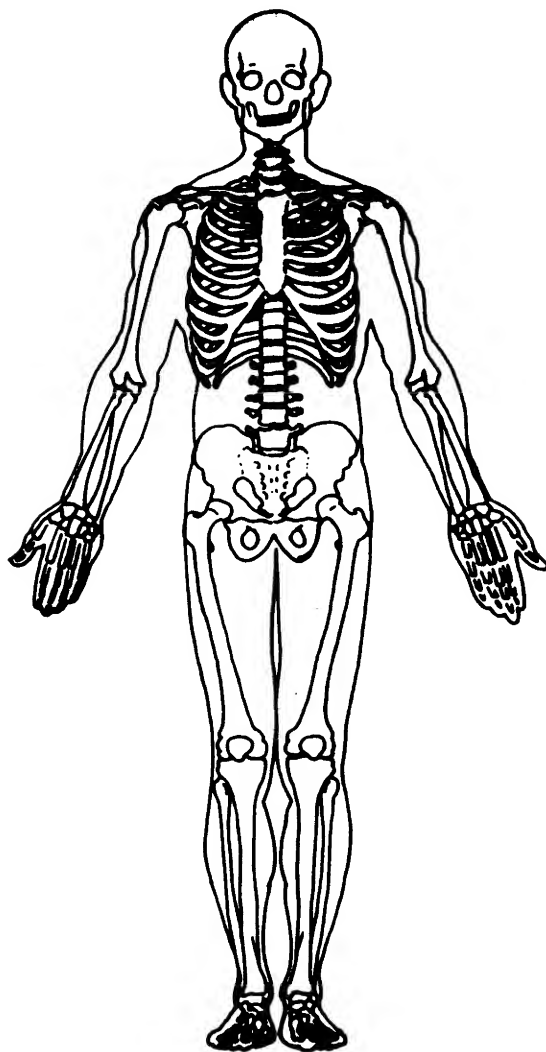
Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





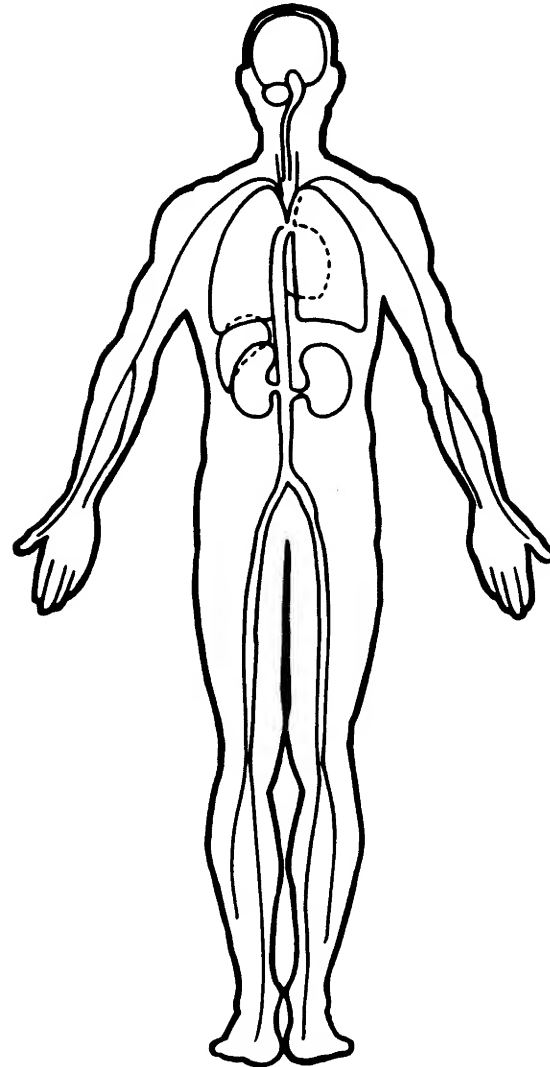
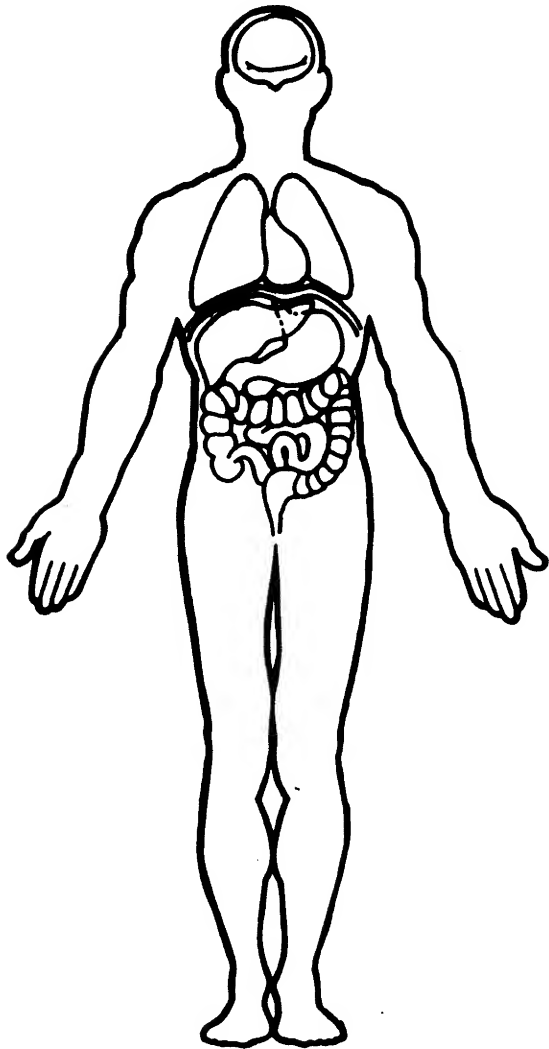
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## UPDATE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 10  
2. Case Number - Stratum 9003  
3. Vehicle Number 01  
4. Occupant Number 01

Driver or Occupant Name: \_\_\_\_\_

Address: \_\_\_\_\_

Other Information: \_\_\_\_\_

(Sanitize this section prior to Update submission.)

### INJURY DATA CODED ON INITIAL SUBMISSION

O.I.C. - A.I.S.										Injury Source		Direct/Indirect Injury		Occupant Area Intrusion No.	
Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source	Confidence Level	Confidence Level	Direct/Indirect Injury	Direct/Indirect Injury	Occupant Area Intrusion No.	Occupant Area Intrusion No.		
1st	5. <u>7</u>	6. <u>K</u>	7. <u>R</u>	8. <u>S</u>	9. <u>J</u>	10. <u>1</u>	11. <u>10</u>	12. <u>3</u>	13. <u>1</u>	14. <u>00</u>					
2nd	15. _____	16. _____	17. _____	18. _____	19. _____	20. _____	21. _____	22. _____	23. _____	24. _____					
3rd	25. _____	26. _____	27. _____	28. _____	29. _____	30. _____	31. _____	32. _____	33. _____	34. _____					
4th	35. _____	36. _____	37. _____	38. _____	39. _____	40. _____	41. _____	42. _____	43. _____	44. _____					
5th	45. _____	46. _____	47. _____	48. _____	49. _____	50. _____	51. _____	52. _____	53. _____	54. _____					
6th	55. _____	56. _____	57. _____	58. _____	59. _____	60. _____	61. _____	62. _____	63. _____	64. _____					
7th	65. _____	66. _____	67. _____	68. _____	69. _____	70. _____	71. _____	72. _____	73. _____	74. _____					
8th	75. _____	76. _____	77. _____	78. _____	79. _____	80. _____	81. _____	82. _____	83. _____	84. _____					
9th	85. _____	86. _____	87. _____	88. _____	89. _____	90. _____	91. _____	92. _____	93. _____	94. _____					
10th	95. _____	96. _____	97. _____	98. _____	99. _____	100. _____	101. _____	102. _____	103. _____	104. _____					

NOTE: If necessary, keep copy of original Occupant Injury form and submit as part of update.

### UPDATED CASE INFORMATION

	INITIAL SUBMISSION	FINAL		INITIAL SUBMISSION	FINAL
GV12. Alcohol Test Results for Driver	<u>97</u>	<u>00</u>	OA35. Treatment - Mortality	<u>4</u>	—
OA05. Occupant's Age	<u>43</u>	—	OA36. Type of Medical Facility (for Initial Treatment)	<u>2</u>	—
OA06. Occupant's Sex	<u>1</u>	—	OA37. Hospital Stay	<u>00</u>	—
OA07. Occupant's Height	<u>71</u>	—	OA38. Working Days Lost	<u>10</u>	—
OA08. Occupant's Weight	<u>205</u>	—	OA39. Time to Death	<u>00</u>	—
OA17. Manual (Active) Belt System Availability	<u>4</u>	—	OA40. 1st Medically Reported Cause of Death	<u>00</u>	—
OA18. Manual (Active) Belt System Use	<u>04</u>	—	OA41. 2nd Medically Reported Cause of Death	<u>00</u>	—
OA21. Automatic (Passive) Restraint System Availability	<u>1</u>	—	OA42. 3rd Medically Reported Cause of Death	<u>00</u>	—
OA22. Automatic (Passive) Restraint Function	<u>4</u>	—	OA43. Number of Recorded Injuries for This Occupant	<u>01</u>	<u>03</u>

## INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the unofficial and official prior to initial case submission **and from subsequently** acquired medical data. Remember not to double count an injury just because it was identified from two different sources.

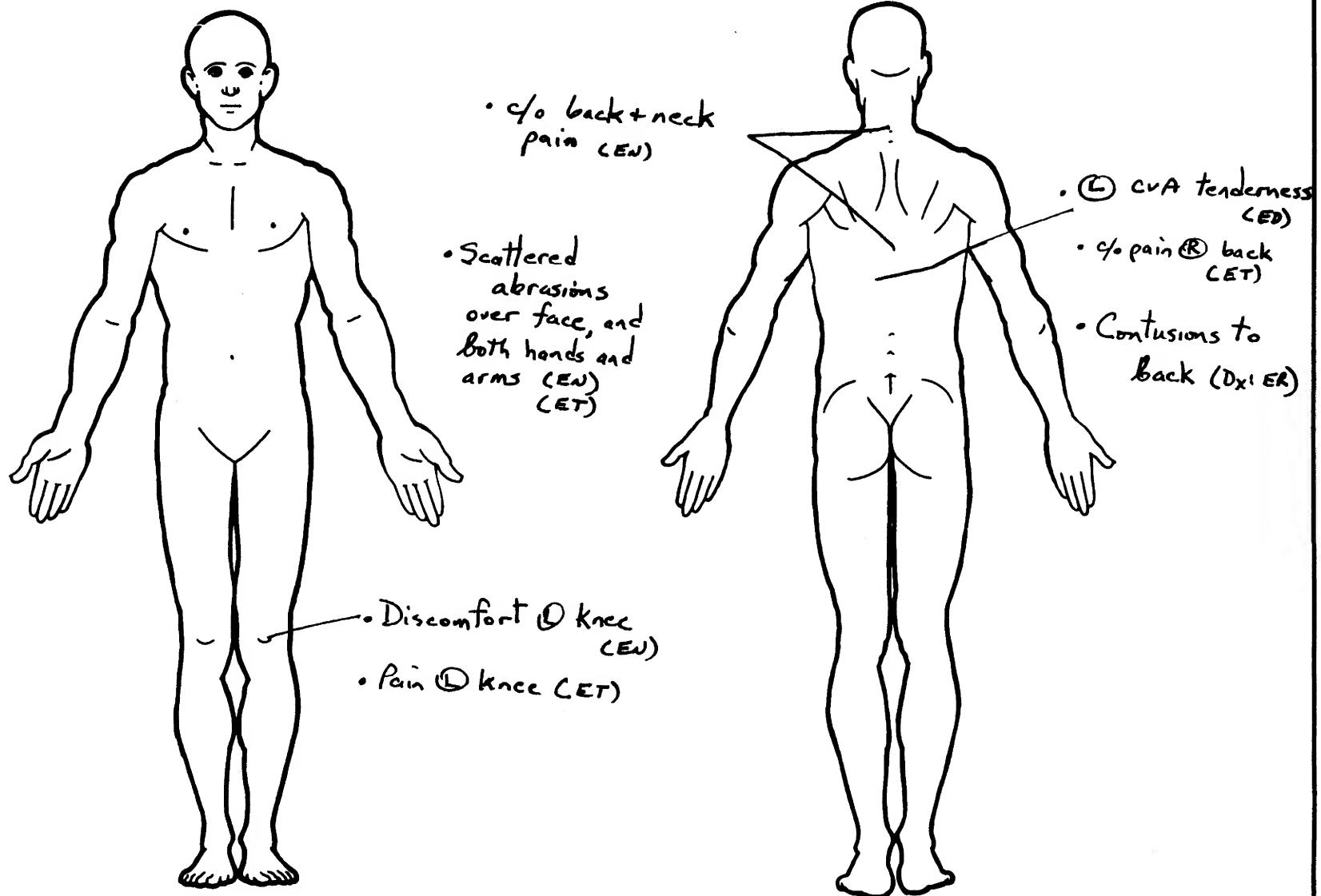
	Source of Injury Data	O.I.C.—A.I.S.				Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.	
		Body Region	Aspect	Lesion	System Organ					A.I.S. Severity
1st	5. <u>3</u>	6. <u>B</u>	7. <u>I</u>	8. <u>C</u>	9. <u>I</u>	10. <u>1</u>	11. <u>46</u>	12. <u>3</u>	13. <u>1</u>	14. <u>00</u>
2nd	15. <u>3</u>	16. <u>M</u>	17. <u>U</u>	18. <u>U</u>	19. <u>U</u>	20. <u>1</u>	21. <u>46</u>	22. <u>3</u>	23. <u>1</u>	24. <u>00</u>
3rd	25. <u>7</u>	26. <u>K</u>	27. <u>R</u>	28. <u>S</u>	29. <u>J</u>	30. <u>1</u>	31. <u>10</u>	32. <u>3</u>	33. <u>1</u>	34. <u>00</u>
4th	35. <u>  </u>	36. <u>  </u>	37. <u>  </u>	38. <u>  </u>	39. <u>  </u>	40. <u>  </u>	41. <u>  </u>	42. <u>  </u>	43. <u>  </u>	44. <u>  </u>
5th	45. <u>  </u>	46. <u>  </u>	47. <u>  </u>	48. <u>  </u>	49. <u>  </u>	50. <u>  </u>	51. <u>  </u>	52. <u>  </u>	53. <u>  </u>	54. <u>  </u>
6th	55. <u>  </u>	56. <u>  </u>	57. <u>  </u>	58. <u>  </u>	59. <u>  </u>	60. <u>  </u>	61. <u>  </u>	62. <u>  </u>	63. <u>  </u>	64. <u>  </u>
7th	65. <u>  </u>	66. <u>  </u>	67. <u>  </u>	68. <u>  </u>	69. <u>  </u>	70. <u>  </u>	71. <u>  </u>	72. <u>  </u>	73. <u>  </u>	74. <u>  </u>
8th	75. <u>  </u>	76. <u>  </u>	77. <u>  </u>	78. <u>  </u>	79. <u>  </u>	80. <u>  </u>	81. <u>  </u>	82. <u>  </u>	83. <u>  </u>	84. <u>  </u>
9th	85. <u>  </u>	86. <u>  </u>	87. <u>  </u>	88. <u>  </u>	89. <u>  </u>	90. <u>  </u>	91. <u>  </u>	92. <u>  </u>	93. <u>  </u>	94. <u>  </u>
10th	95. <u>  </u>	96. <u>  </u>	97. <u>  </u>	98. <u>  </u>	99. <u>  </u>	100. <u>  </u>	101. <u>  </u>	102. <u>  </u>	103. <u>  </u>	104. <u>  </u>

If greater than 10 injuries, code additional on Occupant Injury Data Supplement.

# OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

BEST AVAILABLE COPY

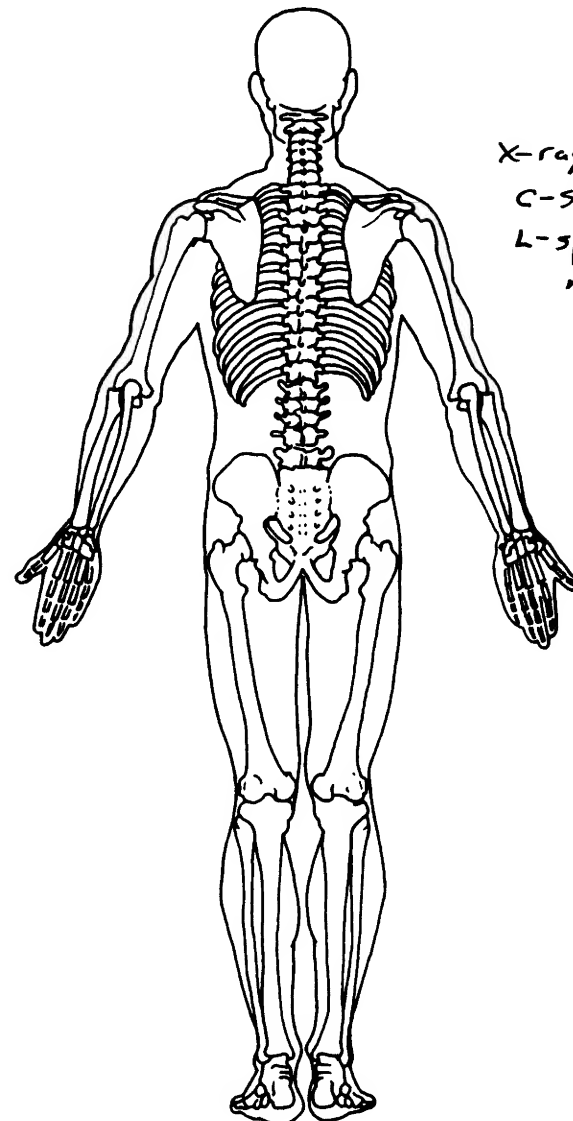
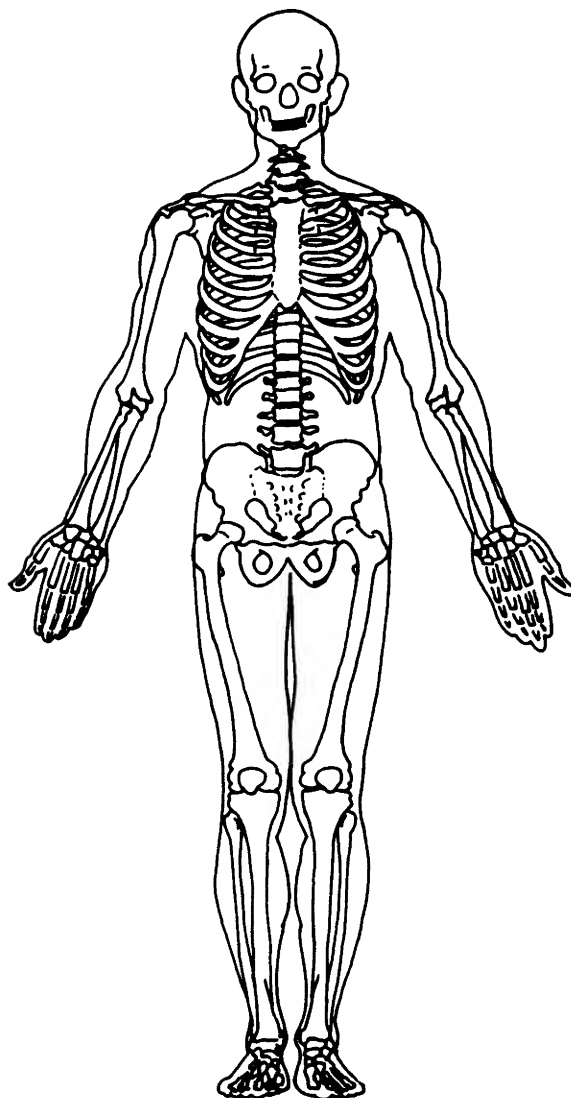
Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Urine Drug Screen: Only detected drug was Caffeine

## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

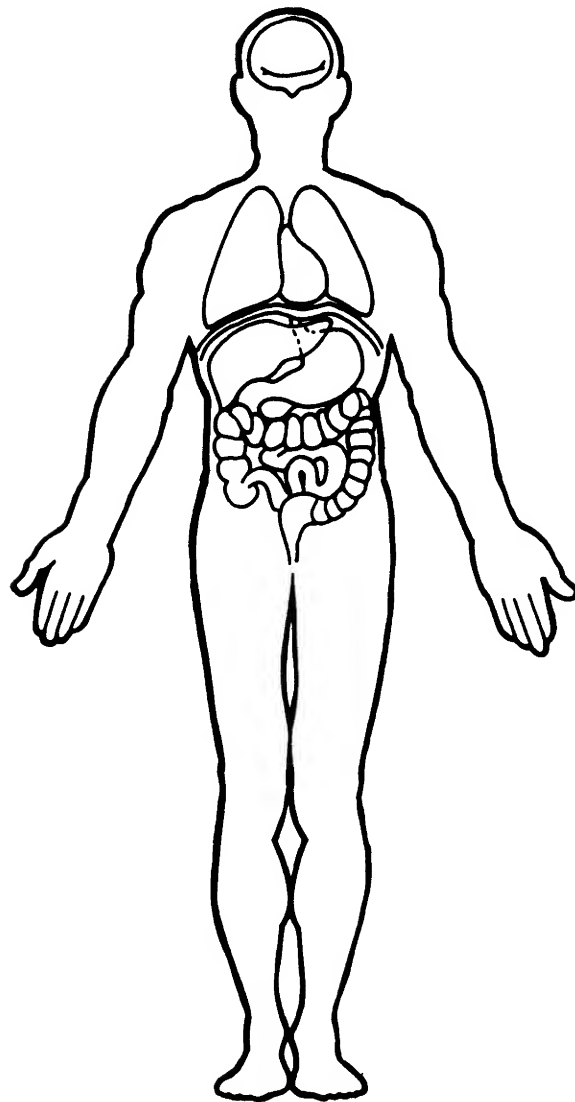


X-ray:  
C-spine +  
L-spine -  
negative  
(E0)  
(Ex)

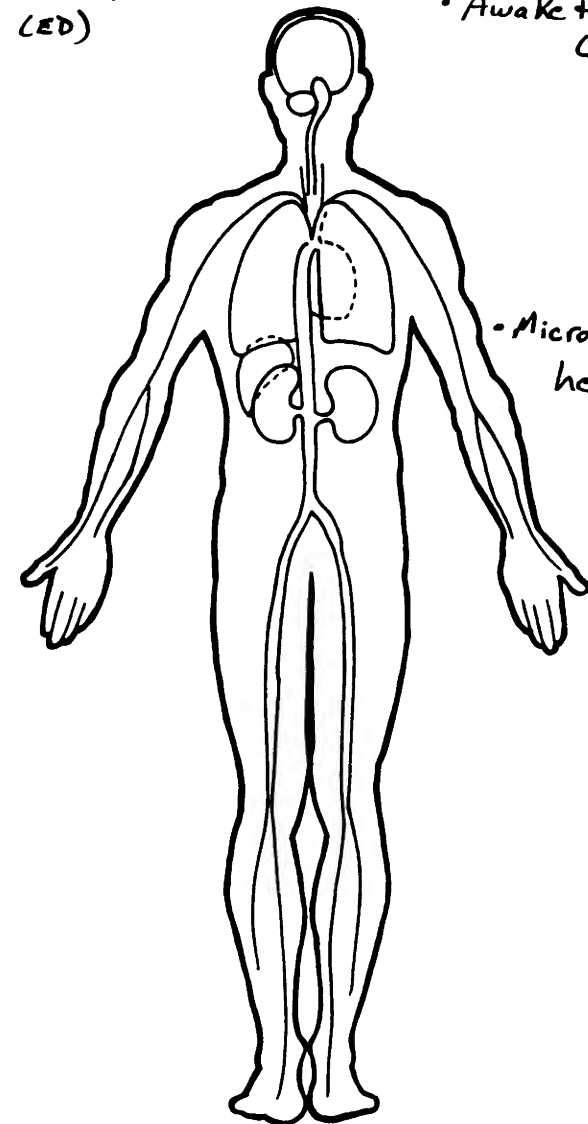
## OFFICIAL INJURY DATA — INTERNAL INJURIES

BEST AVAILABLE COPY

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



• PERRLA, EOM I,  
Fundi — OK  
(ED)



• Denies LOC (EN)

• Awake + alert  
(ET)

• Microscopic  
hematuria  
(Dx: ER)

## EMERGENCY ROOM CHART

PATIENT	ACCOUNT NO.		REG. DATE / TIME		MED. RECORD NO.	
GUARANTOR	TYPE	PRE NO.	DATE OF BIRTH	AGE	SEX	M.S. RACE M.N. C.N. DIABETIC HT WT
				43 Y M	F	0-00 000
INSURANCE	NAME AND ADDRESS			EMPLOYER / CHURCH		STATUS INS-EMP SD.
						( ) -
MISC	NAME AND ADDRESS			EMPLOYER		STATUS INS-EMP
						( ) -
MED PHYSICIAN NOTES				NEAREST RELATIVE		COD
						00000 ( ) -
MEDICATION AND TREATMENT RESPONSE				INSURANCE		
	E.R. ROOM NO.			MODE OF ARRIVAL		LAST E.R. VISIT
				<input type="checkbox"/> WALK <input type="checkbox"/> WHEEL <input type="checkbox"/> CHAIR <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> LAMB <input type="checkbox"/> OTHER		1/32
	TIME SEEN			LTT		LMP
				LTT		LMP
	43 WM in AA - hit car head-on. C/O back + neck pain - No other injuries			PRESENTLY USED MEDICATIONS:		ALLERGIES
	PE - PERL EMT fundi OK			DR. <i>None</i>		EPDC
	Moving all extremities - motor/sensory normal			<input type="checkbox"/> FAMILY <input type="checkbox"/> FRIEND <input type="checkbox"/> NO		<input type="checkbox"/> DR. REFER. <input type="checkbox"/> PATIENT REQUESTS AMBULANCE RUN PREVIOUS ILLNESS
	L. CVA tenderness			HEENT - N/A		CRITICAL CARE
	Ambulatory - station/gait walk					<input type="checkbox"/> LAB <input type="checkbox"/> EKG <input type="checkbox"/> CI
	CSPM - N/A					<input type="checkbox"/> URINE <input type="checkbox"/> C/S
	LS spine - N/A					<input type="checkbox"/> LYTES <input type="checkbox"/> BS
	wine - + blood					<input type="checkbox"/> BUN <input type="checkbox"/> AMYLAS
						<input type="checkbox"/> CREAT. <input type="checkbox"/> SGOT
	Tylonal 11 80					<input type="checkbox"/> T & C <input type="checkbox"/> UNITS
	Rx Tylonal #3 #12					<input type="checkbox"/> REG. DRUG SCREEN <input type="checkbox"/> RAPID DR. SCREEN
	Followup -					<input type="checkbox"/> CHEM 12 <input type="checkbox"/> X-RAY
	Centusions to Back - Microscopic Hematuria					<input type="checkbox"/> DISPOSITIONS TRANS <input type="checkbox"/> ADM TIME <input type="checkbox"/> LEFT AMA <input type="checkbox"/> ROOM NO <input type="checkbox"/> DEATH TIME <input type="checkbox"/> ABSOLUTE <input type="checkbox"/> EXPIRED IN ER <input type="checkbox"/> RELEASE TIME
	LENGTH			LOCATION		SIMPLE CLOSURE
	LAYER CLOSER			DEBRIDEMENT		EDGES REVISED OR UNDERMINED
	FOREIGN MATERIAL REMOVED OR LIGATED			BLEEDERS LIGATED		NUMBER LACERATIONS
	EPDC PHYSICIAN			HOUSE STAFF		ATTENDING PHYSICIAN



ROOM #

## E.R. NURSING NOTES

## MENTAL STATUS:

- ☒ oriented ☐ lethargic  
☐ confused ☐ unresponsive

SKIN: ☐ Dry ☐ Moist

- ☐ Diaphoretic ☒ Warm ☐ Cool  
☐ Cold ☐ Cyanotic ☒ Pink ☐ Pale

Allergies:

Visual Acuity: OD <sup>20</sup>/<sub>20</sub> OS <sup>20</sup>/<sub>20</sub> OU <sup>20</sup>/<sub>20</sub>

Weight:

Chief Complaint:

Presently Used Medications:

LTT unsure

Time Temp BP P R

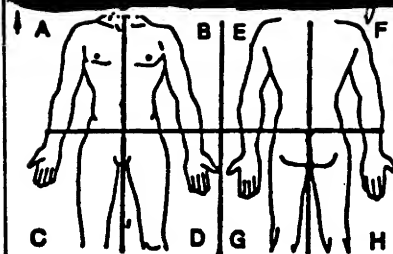
## NURSE'S NOTES

11am 98° 140/80 96 28 Involved in auto accident, driver & seatbelt on. When ambulance arrived pt outside of vehicle. C/o pain lower back, pain denies LOC. Scattered abrasions over face & both hands & arms, 10cm x 4cm laceration to (L) knee. X-ray. Returned for X-ray. U/A obtained. Family on bedside. Medicated c/tyl-d if go for c/o U/A. mpt report collected to IN-A. mpt

## SIGNATURES

Primary Nurse

- ☐ Code Sheet  
☐ Trauma Sheet  
☐ Transfer Sheet  
☐ Instructions  
☐ Clothing Sheet  
☐ Neuro Sheet



TIME/SITE/INITIALS

MEDS

RESPONSE

3:25 to 3:30

Dyle if go

NAME: [REDACTED]  
STREET: [REDACTED]  
CITY: [REDACTED]  
AGE: 43  
FLOOR: ER  
X-RAY NO.: [REDACTED]  
DATE: [REDACTED]/90

DEPARTMENT OF RADIOLOGY

EXAMINATION: Lumbar Spine; Cervical Spine

[REDACTED] M.D.

cc: ER

## REPORT OF RADIOLOGIC CONSULTATION

There is no evidence fracture, dislocation or abnormal soft tissue calcification. Minimal bony productive change is seen about the posterior elements of L5-S1. Mild anterior lippling is seen involving vertebral bodies L1 and L4.

IMPRESSION: 1. Minimal degenerative changes as described.

There is no fracture or dislocation involving the bones and joints of the cervical spine. The vertebral bodies, intervertebral disc spaces and posterior elements are intact. There are two small radiopaque densities adjacent to the inferior end plate, anteriorly vertebral body C6 and C5 respectively. These likely represent old degenerative avulsions. There is straightening of the normal lordosis.

IMPRESSION: 1. Minimal anterior degenerative changes at C5 and C6 as described.

[REDACTED] M.D.

cm  
[REDACTED]/90

## \*\*\*\*\* SPECIAL CHEMISTRY \*\*\*\*\*

TEST UNITS RANGE

## \*\*\*--THERAPEUTIC DRUGS &amp; TOXICOLOGY--\*\*\*

DRUG SCREEN [REDACTED] 1150

## Urine Drug Screen

Barbiturates (excluding Phenobarbital): None detected  
 Phenobarbital: None detected Acetaminophen: None detected  
 Urine Ethyl Alcohol: None detected Benzodiazepines: None detected  
 Caffeine: DETECTED Nicotine: None detected  
 Cocaine Metabolites: None detected Cannabinoids: None detected  
 Ethinamate: None detected Strychnine: None detected  
 Amitriptyline: None detected Methadone: None detected  
 Nortriptyline: None detected Methaqualone: None detected  
 Imipramine: None detected Quinine: None detected  
 Doxepin: None detected Morphine: None detected  
 Amphetamines: None detected Cocaine: None detected  
 Methamphetamine: None detected Codeine: None detected  
 Pseudoephedrine: None detected PCP: None detected  
 Phenytoin: None detected Propoxyphene: None detected  
 Glutethimide: None detected Meperidine: None detected  
 Meprobamate: None detected  
 Phenothiazine Metabolites: None detected

ALCOHOL LEGAL [REDACTED] The DIAGNOSTIC serum alcohol is 0 MG/DL or 0 %.

The results of the LEGAL whole blood alcohol are UNAVAILABLE through  
 [REDACTED] or [REDACTED] Hospital.

LEGAL whole blood alcohol testing is performed and reported by the [REDACTED]  
 [REDACTED] laboratory.

Witnessing police officer [REDACTED] OFFICER

Badge # [REDACTED] UNKNOWN

BARBITURATE SCRN NEGATIVE NEGATIVE

BARBITURATE SCRN..... A positive result indicates that the drug and metabolite are present at a  
 level exceeding the suggested therapeutic range of barbiturate.

## \*\*\*\*\* SPECIAL CHEMISTRY \*\*\*\*\*

TEST UNITS RANGE

## \*\*\*--THERAPEUTIC DRUGS &amp; TOXICOLOGY--\*\*\*

BENZODIAZ SCRN NEGATIVE NEGATIVE

BENZODIAZ SCRN..... A positive result indicates that the drug and metabolite are present at a  
 level exceeding the suggested therapeutic range of benzodiazepine.

TRICYCLIC SCRN NEGATIVE NEGATIVE

TRICYCLIC SCRN..... A positive result indicates that the drug and metabolite are present at a  
 level that exceeds the suggested therapeutic range for tricyclics.

# MEDICATION AND TREATMENT RECORD

<input type="checkbox"/> ADVANCE LIFE SUPPORT		<input checked="" type="checkbox"/> BASIC LIFE SUPPORT		<input type="checkbox"/> TRANSFER	
DATE	UNIT	DISCHARGE	10-23 TIME	10-6 TIME	10-23 HOSP
190		47	1055	1106	1133
PATIENT	NAME	ADDRESS	DOB	AGE	SEX
				43	M
GFD, OCPD, ISP, Med 31			PUBLIC PLACE <input type="checkbox"/> SEE COMMENTS		

COMPLAIN Injury 1050 PZ

LOCATION OF CALL Quake + Alert

CONDITION ON ARRIVAL Awake + Alert

VITAL SIGNS		CALL ORDERED BY		DELIVERED TO		EKG MONITOR		LEAD II		<input type="checkbox"/> SEE ATTACHED EKG SHEET	
TIME											
B/P	110/50	/	/	/	/	/					
PULSE	120										
RESP	20										
O2		<input type="checkbox"/> CANNULA	<input type="checkbox"/> SIMPLE MASK	<input type="checkbox"/> NON-REBREATH	<input type="checkbox"/> E.T. TUBE	<input type="checkbox"/> AMBU					
	<input type="checkbox"/> O.P. AIRWAY	L/M	L/M	L/M	L/M	MM	L/M				

IV FLUIDS		SITE LOCATION		AMOUNT HUNG		RATE		MEDICATIONS		DOSE		ROUTE		TIME		TIME		TIME		TOTAL DOSE	
TIME	FLUID																				
	MIXED IV:																				
	TOTAL FLUID GIVEN:																				

EYES		OPEN		SPONTANEOUSLY TO VERBAL COMMAND TO PAIN		PUPILS		R		L		APPEARANCE		BREATHING	
		NO RESPONSE				TIME		R		L		SKIN TEMP:		BREATH SOUNDS:	
BEST MOTOR RESPONSE		TO VERBAL COMMAND TO PAINFUL STIMULUS		OBEYS LOCALIZES PAIN FLEXION-WITHDRAWAL FLEXION-ABNORMAL EXTENSION				R		L		NORMAL		LABORED	
								I		I		HOT		DEEP	
								G		G		COLD		RHONCHI	
								H		H		DIAPHORETIC		STRIDOR	
								T		T					
BEST VERBAL RESPONSE		ORIENTED & CONVERSES DISORIENTED & CONVERSES INAPPROPRIATE WORDS INCOMPREHENSIBLE SOUNDS NO RESPONSE				TIME		R		L		COLOR:		BREATH SOUNDS:	
								I		I		NORMAL		EQUAL	
								G		G		PALE		UNEQUAL	
								H		H		MOTTLED		WHERE	
								T		T		DUSKY			
TOTAL												ALLERGIES			
												NONE			
CURRENT MEDICATIONS												FAMILY PHYSICIAN			

PATIENT HISTORY	<input type="checkbox"/> MIA SHD	<input type="checkbox"/> CVA	<input type="checkbox"/> COPD	<input type="checkbox"/> DIABETIC	<input type="checkbox"/> KIDNEY DISEASE	<input type="checkbox"/> CA	<input type="checkbox"/> O.B.S.	<input type="checkbox"/> SEE COMMENTS
	<input type="checkbox"/> CHF	<input type="checkbox"/> HYPERTENSION	<input type="checkbox"/> ASTHMA	<input type="checkbox"/> SEIZURES	<input type="checkbox"/> LIVER DISEASE	<input type="checkbox"/> E.T.O.H.	<input type="checkbox"/> OTHER	

White 43 year Old Male, 1050 PZ  
 Go to back pain. Pain in RT lower back.  
 It was able to get out on his own. It was found  
 On long - C-Section, 1/5 was taking, RT had  
 neurologic small cuts from glass, pins, broken  
 up glass. It was transported to [redacted] 1050  
 1050 - RT was able to converse with  
 medical.



## OCCUPANT ASSESSMENT FORM

1. Primary Sampling Unit Number 10  
2. Case Number - Stratum 9003  
3. Vehicle Number 01  
4. Occupant Number 02

### OCCUPANT'S CHARACTERISTICS

5. Occupant's Age 33  
Code actual age at time of accident.  
(00) Less than one year old (specify by month): \_\_\_\_\_  
(97) 97 years and older  
(99) Unknown
6. Occupant's Sex 2  
(1) Male  
(2) Female  
(9) Unknown
7. Occupant's Height 67  
Code actual height to the nearest inch.  
(99) Unknown
8. Occupant's Weight 120  
Code actual weight to the nearest pound.  
(999) Unknown
9. Occupant's Role 2  
(1) Driver  
(2) Passenger  
(9) Unknown
10. Occupant's Seat Position 13  
Front Seat  
(11) Left side  
(12) Middle  
(13) Right side  
(14) Other (specify): \_\_\_\_\_  
Second Seat  
(21) Left side  
(22) Middle  
(23) Right side  
(24) Other (specify): \_\_\_\_\_  
Third Seat  
(31) Left side  
(32) Middle  
(33) Right side  
(34) Other (specify): \_\_\_\_\_  
Fourth Seat  
(41) Left side  
(42) Middle  
(43) Right side  
(44) Other (specify): \_\_\_\_\_  
(97) In or on unenclosed area  
(98) Other seat (specify): \_\_\_\_\_  
(99) Unknown

11. Occupant's Posture 1  
(0) Normal posture  
(1) Abnormal posture (specify): \_\_\_\_\_  
(9) Unknown

### EJECTION/ENTRAPMENT

12. Ejection 0  
(0) No ejection  
(1) Complete ejection  
(2) Partial ejection  
(3) Ejection, unknown degree  
(9) Unknown
13. Ejection Area 0  
(0) No ejection  
(1) Windshield  
(2) Left front  
(3) Right front  
(4) Left rear  
(5) Right rear  
(6) Rear  
(7) Roof  
(8) Other area (e.g., back of pickup, etc.)  
(specify): \_\_\_\_\_  
(9) Unknown
14. Ejection Medium 1  
(0) No ejection  
(1) Door/hatch/tailgate  
(2) Nonfixed roof structure  
(3) Fixed glazing  
(4) Nonfixed glazing (specify): \_\_\_\_\_  
(5) Integral structure  
(8) Other medium (specify): \_\_\_\_\_  
(9) Unknown
15. Medium Status (Immediately Prior to Impact) 0  
(0) No ejection  
(1) Open  
(2) Closed  
(3) Integral structure  
(9) Unknown
16. Entrapment 0  
(NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)  
(0) Not entrapped  
(1) Entrapped  
(9) Unknown

**RESTRAINT SYSTEM AND SEAT EVALUATION****17. Manual (Active) Belt System Availability** 4

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available - type unknown
- (8) Other belt (specify): \_\_\_\_\_

(9) Unknown

**18. Manual (Active) Belt System Use** 00

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify): \_\_\_\_\_

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown
- (08) Other belt used (specify): \_\_\_\_\_

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat - type unknown
- (18) Other belt used with child safety seat (specify): \_\_\_\_\_

(99) Unknown if belt used

**19. Proper Use of Manual (Active) Belts** 0

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_

- (8) Other improper use of manual belt system (specify): \_\_\_\_\_

(9) Unknown

**20. Manual (Active) Belt Failure Modes During Accident** 0

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify): \_\_\_\_\_

- (6) Broken retractor
- (7) Combination of above (specify): \_\_\_\_\_

- (8) Other manual belt failure (specify): \_\_\_\_\_

(9) Unknown

**21. Automatic (Passive) Restraint System Availability** 0

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): \_\_\_\_\_

- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

**22. Automatic (Passive) Restraint Function** 0

- (0) Not equipped/not available

Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just prior to accident
- (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

**23. Did Automatic (Passive) Restraint Fail?** 0

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_

(9) Unknown

**24. Police Reported Restraint Use** 0

- (0) None used
- (1) Police did not indicate restraint use
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt used, type not specified
- (6) Child safety seat
- (7) Other or automatic restraint (specify): \_\_\_\_\_

- (8) Restrained, type unknown
- (9) Police indicated "unknown"

**25. Head Restraint Type/Damage by Occupant at This Occupant Position** 3

- (0) No head restraints
- (1) Integral - no damage
- (2) Integral - damaged during accident
- (3) Adjustable - no damage
- (4) Adjustable - damaged during accident
- (5) Add-on - no damage
- (6) Add-on - damaged during accident
- (8) Other (specify): \_\_\_\_\_

(9) Unknown

## National Accident Sampling System – Crashworthiness Data System: Occupant Assessment Form

Page 3

**26. Seat Type (This Occupant Position)** 06

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify):

(99) Unknown

**27. Seat Performance (This Occupant Position)** 6

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):

- seat back deformed/recovered  
 - seat cushion deformed/det.

(7) Combination of above (specify):

(8) Other (specify):

(9) Unknown

**CHILD SAFETY SEAT****28. Child Safety Seat Make/Model** 000

(000) No child safety seat

Applicable codes are found in your NASS CDS Data Collection, Coding, and Editing Manual

(997) Other make/model (specify):

(998) Unknown make/model

(999) Unknown if child safety seat used

**29. Type of Child Safety Seat** 0

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify):

(8) Unknown child safety seat type

(9) Unknown if child safety seat used

**30. Child Safety Seat Orientation** 00

(00) No child safety seat

Designed for Rear Facing for This Age/Weight

- (01) Rear facing
- (02) Forward facing
- (08) Other orientation (specify):

(09) Unknown orientation

Designed for Forward Facing for This Age/Weight

- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):

(19) Unknown orientation

Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight

- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):

(29) Unknown orientation

(99) Unknown if child safety seat used

**31. Child Safety Seat Harness Usage** 00**32. Child Safety Seat Shield Usage** 00**33. Child Safety Seat Tether Usage** 00

Note: Options below applicable to Variables OA31-OA33.

(00) No child safety seat

Not Designed with

Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed with Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed with Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

## National Accident Sampling System - Crashworthiness Data System: Occupant Assessment Form

Page 4

**INJURY CONSEQUENCES****34. Injury Severity (Police Rating)** 4

- (0) O - No injury
- (1) C - Possible injury
- (2) B - Nonincapacitating injury
- (3) A - Incapacitating injury
- (4) K - Killed
- (5) U - Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

**35. Treatment - Mortality** 1

- (0) No treatment
- (1) Fatal
- (2) Fatal - ruled disease
- Nonfatal
- (3) Hospitalized
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (8) Treatment - other (specify): \_\_\_\_\_

(9) Unknown

**36. Type of Medical Facility (for Initial Treatment)** 1

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify): \_\_\_\_\_

(9) Unknown

**37. Hospital stay** 00

Code number of days (up through 60) that the occupant stayed in the hospital

- (00) Not hospitalized
- (61) 61 days or more
- (99) Unknown

**38. Working Days Lost** 62

Code the number of days (up through 60) that the occupant lost from work due to the accident

- (00) No working days lost
- (61) 61 days or more
- (62) Fatally injured
- (97) Not working prior to accident
- (99) Unknown

**39. Time to Death** 01

Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)

- (00) Not fatal
- (96) Fatal - ruled disease
- (99) Unknown

**40. 1st Medically Reported Cause of Death** 06**41. 2nd Medically Reported Cause of Death** 03**42. 3rd Medically Reported Cause of Death** 02

Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death

- (00) Not fatal or no additional causes
- (97) Other result (specify): \_\_\_\_\_

(99) Unknown

**43. Number of Recorded Injuries for This Occupant** 06

Code the actual number of injuries recorded for this occupant.

- (00) No recorded injuries
- (97) Injured, details unknown
- (99) Unknown if injured

UPDATE CANDIDATE

NO [✓]

YES [ ]

\*\*\* STOP HERE \*\*\*

IF THERE ARE NO RECORDED INJURIES

(I.E., OA43=00, 97, 99)





U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

Form Approved  
O.M.B. No. 2127-0021  
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

## OCCUPANT INJURY FORM

1. Primary Sampling Unit Number 10 3. Vehicle Number 01  
2. Case Number - Stratum 9003 4. Occupant Number 02

### INJURY DATA

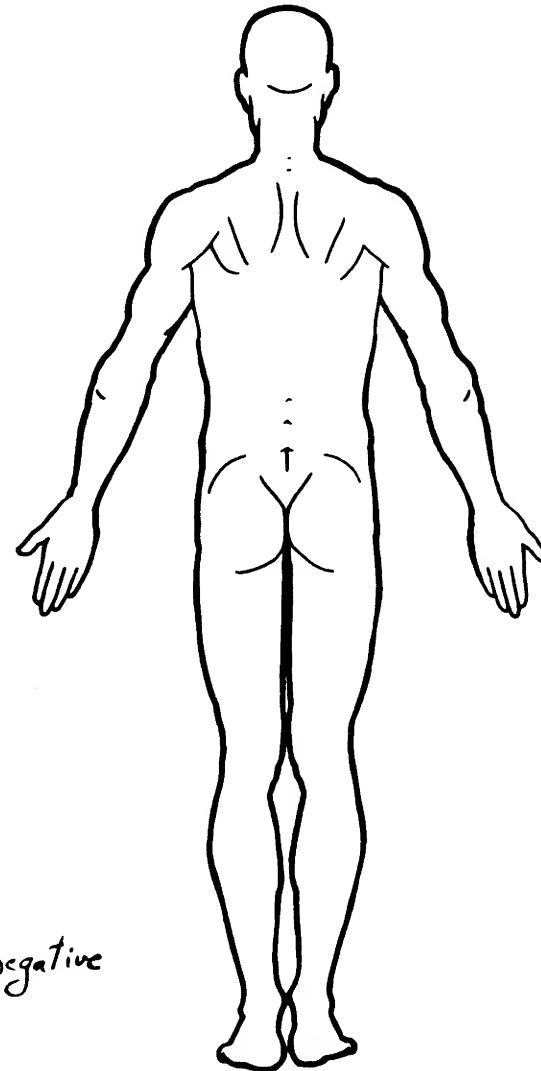
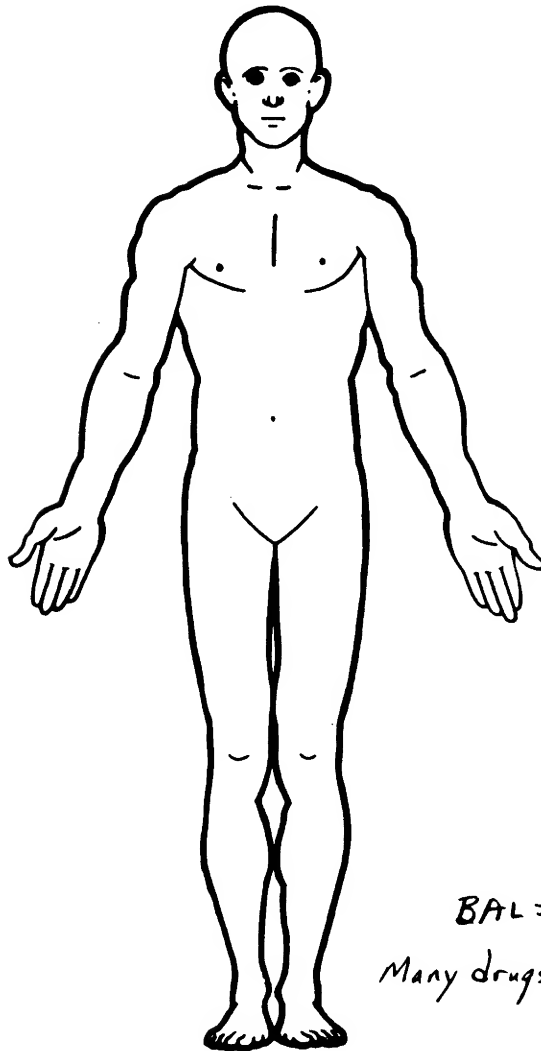
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>1</u>	6. <u>N</u>	7. <u>P</u>	8. <u>Z</u>	9. <u>V</u>	10. <u>2</u>	11. <u>53</u>	12. <u>1</u>	13. <u>1</u>	14. <u>02</u>
2nd	15. <u>1</u>	16. <u>C</u>	17. <u>R</u>	18. <u>F</u>	19. <u>S</u>	20. <u>4</u>	21. <u>30</u>	22. <u>1</u>	23. <u>1</u>	24. <u>01</u>
3rd	25. <u>1</u>	26. <u>C</u>	27. <u>R</u>	28. <u>L</u>	29. <u>P</u>	30. <u>3</u>	31. <u>30</u>	32. <u>1</u>	33. <u>1</u>	34. <u>01</u>
4th	35. <u>1</u>	36. <u>M</u>	37. <u>R</u>	38. <u>L</u>	39. <u>L</u>	40. <u>2</u>	41. <u>30</u>	42. <u>1</u>	43. <u>1</u>	44. <u>01</u>
5th	45. <u>1</u>	46. <u>M</u>	47. <u>L</u>	48. <u>L</u>	49. <u>Q</u>	50. <u>2</u>	51. <u>30</u>	52. <u>2</u>	53. <u>1</u>	54. <u>01</u>
6th	55. <u>1</u>	56. <u>M</u>	57. <u>C</u>	58. <u>L</u>	59. <u>A</u>	60. <u>4</u>	61. <u>30</u>	62. <u>1</u>	63. <u>1</u>	64. <u>01</u>
7th	65. <u>  </u>	66. <u>  </u>	67. <u>  </u>	68. <u>  </u>	69. <u>  </u>	70. <u>  </u>	71. <u>  </u>	72. <u>  </u>	73. <u>  </u>	74. <u>  </u>
8th	75. <u>  </u>	76. <u>  </u>	77. <u>  </u>	78. <u>  </u>	79. <u>  </u>	80. <u>  </u>	81. <u>  </u>	82. <u>  </u>	83. <u>  </u>	84. <u>  </u>
9th	85. <u>  </u>	86. <u>  </u>	87. <u>  </u>	88. <u>  </u>	89. <u>  </u>	90. <u>  </u>	91. <u>  </u>	92. <u>  </u>	93. <u>  </u>	94. <u>  </u>
10th	95. <u>  </u>	96. <u>  </u>	97. <u>  </u>	98. <u>  </u>	99. <u>  </u>	100. <u>  </u>	101. <u>  </u>	102. <u>  </u>	103. <u>  </u>	104. <u>  </u>

## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

**AUTOPSY****Dead at Scene**

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

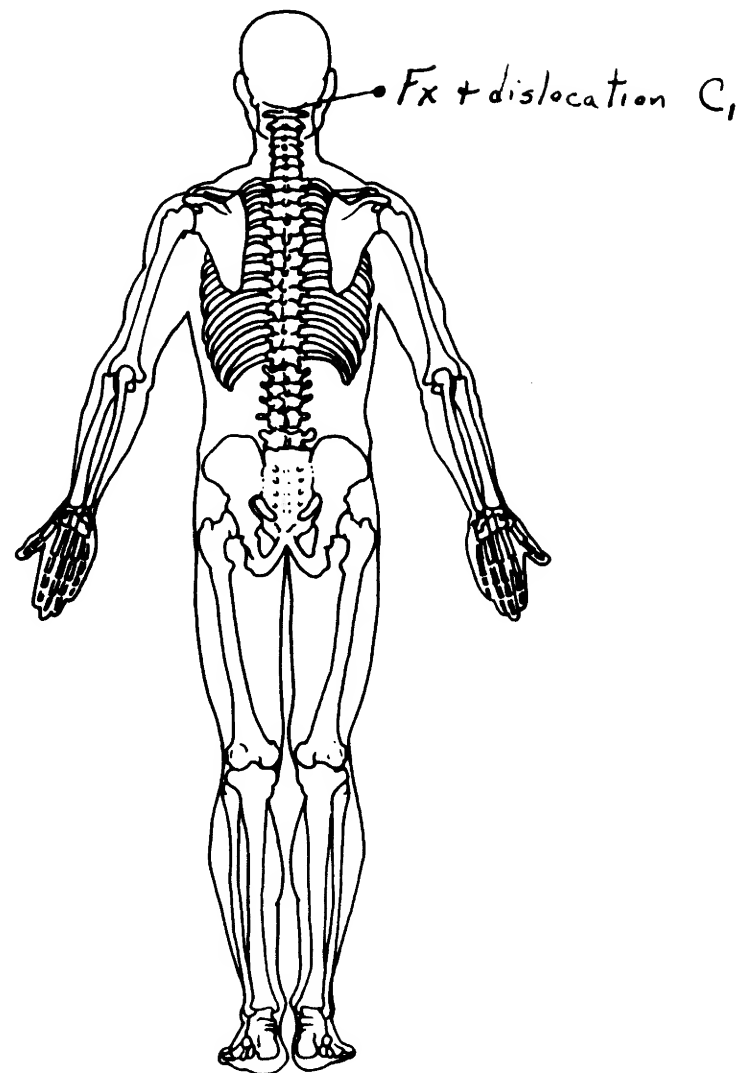
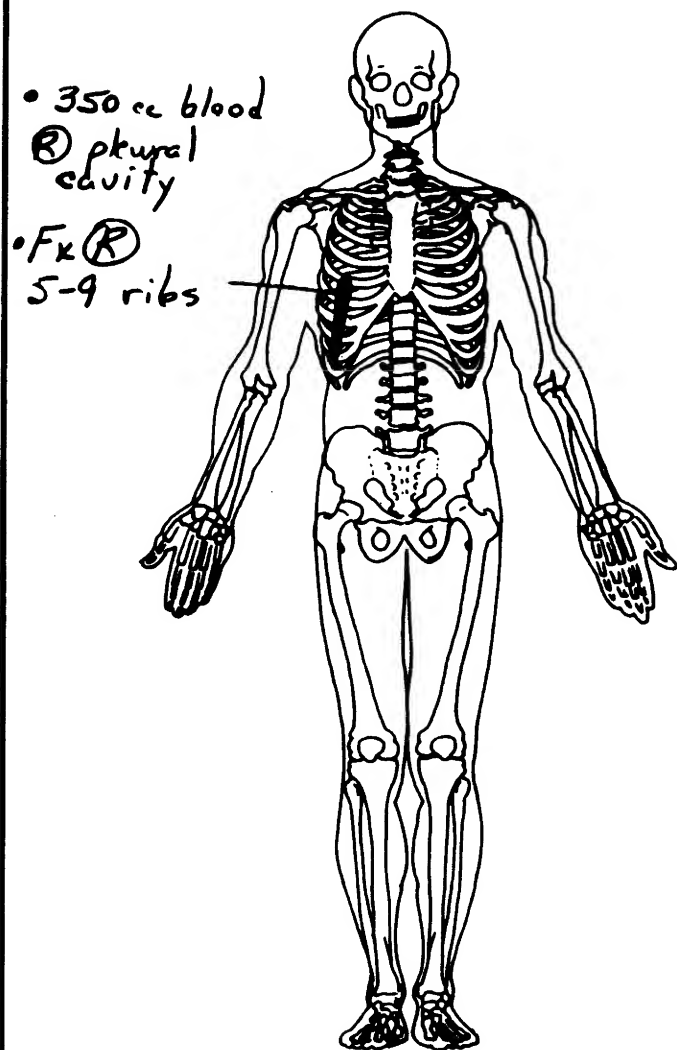


BAL = .00 mg/dl  
 Many drugs Tested – all negative

Cause of Death: exsanguination and 2° laceration @ lung, Liver, spleen, + abdominal aorta

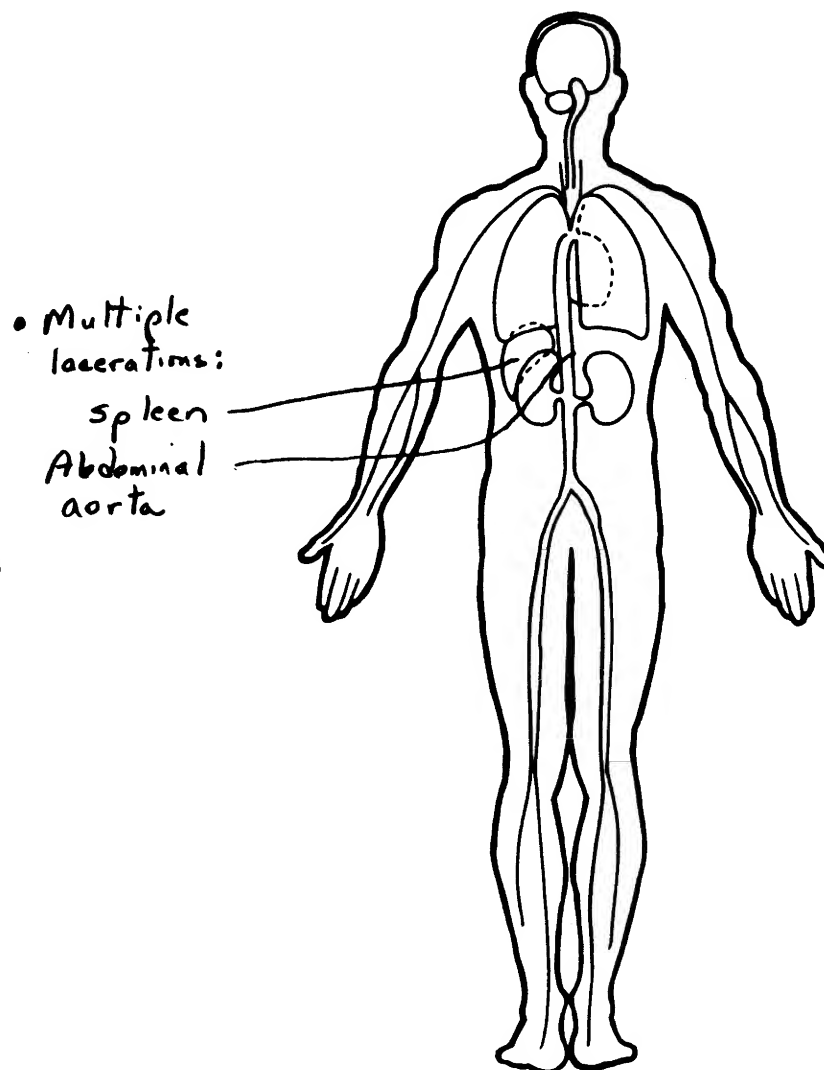
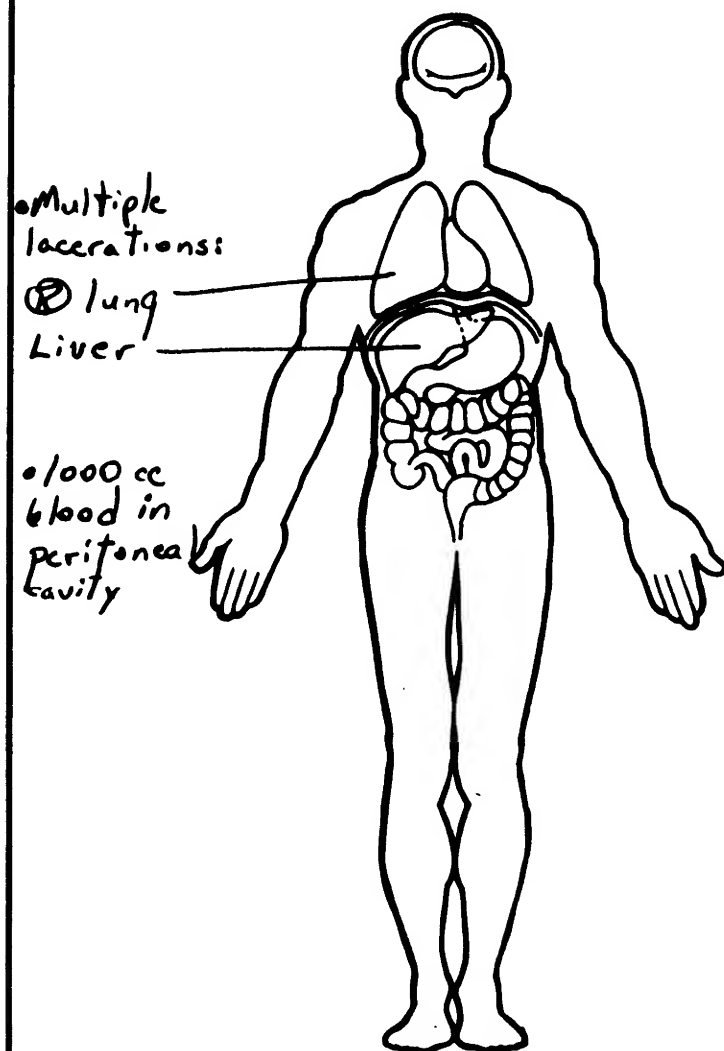
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## OFFICIAL INJURY DATA — INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Department of Pathology

[REDACTED] HOSPITAL  
[REDACTED] Indiana

Preliminary Autopsy Report

Name: [REDACTED]  
Sex: FemaleHospital: # [REDACTED]  
Age: 33Autopsy: # [REDACTED]  
Date: [REDACTED]Date of Death: [REDACTED]-90  
Date of Autopsy: [REDACTED]-90Hour: [REDACTED]  
Hour: [REDACTED]

Performed by: [REDACTED] M.D.

Copies to: Coroner

Death Certificate signed as follows:

Immediate Cause of Death: Exsanguination

Due To: Laceration of right lung, liver, spleen, and abdominal  
aorta

Due To: Car accident

Other Conditions: Fracture of right fifth to ninth ribs; fracture and  
dislocation of first cervical vertebraThe following is a summary of the pertinent gross findings. A complete report will be  
sent to you at the completion of our studies.**SUMMARY:**The autopsy is performed on the unembalmed body of a 33 year old white female iden-  
tified by the Coroner as [REDACTED]. The autopsy is authorized by the [REDACTED]  
Coroner, [REDACTED] and is unrestricted.The findings related to the immediate cause of death are exsanguination secondary  
to multiple lacerations of the right lung, liver, spleen, and abdominal aorta. There  
are 350 cc. of bloody fluid in the right pleural cavity and 1000 cc. of bloody fluid in  
the peritoneal cavity. Fracture and dislocation of the right fifth to ninth ribs and  
the first cervical vertebra are noted.In summary, the immediate cause of death is due to exsanguination and secondary to  
laceration of the right lung, liver, spleen, and abdominal aorta.

[REDACTED]

[REDACTED]  
Resident M.D.[REDACTED]  
Pathologist M.D.

## SPECIAL CHEMISTRY

TEST

UNITS RANGE

## THERAPEUTIC DRUGS &amp; TOXICOLOGY

## DRUG SCREEN

## Blood/Serum Drug Screen

Phenobarbital: None detected	
Barbiturates excluding Phenobarbital: None detected	
Caffeine: DETECTED	Nicotine: None detected
Acetaminophen: None detected	
Ethinamate: None detected	Strychnine: None detected
Phenothiazine Metabolite: None detected	
Amitriptyline: None detected	Methadone: None detected
Nortriptyline: None detected	Methaqualone: None detected
Imipramine: None detected	Quinine: None detected
Doxepin: None detected	Morphine: None detected
Amphetamines: None detected	Cocaine: None detected
Methamphetamine: None detected	Codeine: None detected
Pseudoephedrine: None detected	PCP: None detected
Phenytoin: None detected	Propoxyphene: None detected
Glutethimide: None detected	Meperidine: None detected
Benzodiazepines: None detected	Meperbamate: None detected

SERUM ALCOHOL = 0.0 MG/DL OR 0.000%